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TECHNICAL REPORT NO. 9387 (LL 109)

ATLAS OF OFF-ROAD GROUND ROUGHNESS P.S.D.'s AND REPORT ON DATA ACQUISITION TECHNIQUE



by

John L. Bogdanoff Frank Kozin Louis J. Cote

ATAG

COMPONENTS RESEARCH & DEVELOPMENT LABORATORIES

U.S. ARMY TANK AUTOMOTIVE CENTER WARREN. MICHIGAN

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ATLAS

OFF-ROAD GROUND ROUGHNESS P.S.D.'s

AND

REPORT ON DATA ACQUISITION TECHNIQUE

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LAND LOCOMOTION LABORATORY

ABSTRACT

Power spectral densities, in one (line) and two (area) dimensions, are presented for off-road ground in eleven sites in the United States. Methods of acquiring, recording, and processing the data are described in detail.

FOREWORD

Ground roughness measurements on lines at three sites were given in a previous report and their power spectral densities (p.s.d.'s) displayed. These p.s.d.'s possessed many common characteristics and the question was raised by many as to whether these characteristics would persist for other sites. Moreover, no computer program was available for processing area data or even parallel line data.

These basic data and their p.s.d.'s are required in any vibrational analysis of the motion of a vehicle on open ground.

The opportunity arose in the summer of 1964 to acquire additional roughness data in the mid-continent of the United States.

GLOSSARY

Ground Profile is a plot of the survey height vs. distance along a line.

Power Spectral Density (p.s.d.) measures the amount of vibration, by frequency bands, of the ground heights.

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INTRODUCTION

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The theory of land locomotion we are developing requires ground roughness spectra as input data. Line spectra have been obtained from a limited number of sites. However, vehicles make use of parallel tracks and the dynamical input from parallel tracks requires the spectra on each track and also the cospectra. A complete description of a site would require the spectra of a track and the cospectra of parallel tracks with different separations. Also, the spectra and co-spectra for tracks in different directions would be required. Fortunately, this total information is contained in the two-dimensional spectrum [See Report [1] (references) for a complete description].

The preparation of inputs to the differential equations of motion making use of the two-dimensional spectrum is described in References [2]. We are now in the process of comparing this first order theory with experiment.

Part of the basic information needed in this theory is a description of ground roughness in terms of p.s.d.'s (power spectral densities). In one of our reports [1], we presented p.s.d.'s obtained from data taken at three sites. Two of the sites had been modified by vehicle traffic. The three spectra had many points of similarity and some points of difference. We interpreted the spectra and compared them with the profile data. Certain questions remained outstanding which required, for their resolution, the acquisition of additional data:

- a) Are these p.s.d.'s typical?
- b) Can the major and relevant features of ground p.s.d.'s be summarized in a simple manner?
- c) Is it possible to estimate the relevant characteristics of ground roughness p.s.d.'s from information found in aerial photography, topographical and geographical maps, etc.?

It was therefore decided to compile a small atlas of ground roughness p.s.d.'s made at a variety of sites.

During a visit (May 1964) to Vicksburg the objectives were discussed. It was suggested there that we choose our sites at military installations that were being used by the MERS Project. This had the advantage that the sites were available for future vehicle testing. The MERS Project had compiled photographs and topographical maps of these installations, and the commanding officers had indicated their willingness to cooperate with MERS. The location and terrain characteristics of the installations were reviewed and preliminary selection was made at that time.

These selected installations were in the mid-continent so that a surveying crew could travel from one to another in a short summer period and make a maximum number of surveys at a variety of locations.

The Commanding Officer at ATAC sent a letter to each installation explaining our purpose and requesting permission to make an initial visit and then to make the required measurements at a subsequent time. It was also explained that we might need the services of a guide, etc.

Preliminary trips were made by MASC personnel to select sites at:

- 1. Fort Riley, Kansas
- 2. Camp Gruber, Oklahoma (abandoned)
- 3. Fort Carson, Colorado
- 4. Fort Sill, Oklahoma
- 5. Fort Hood, Texas
- 6. Fort Polk, Louisiana
- 7. Fort Benning, Georgia
- 8. Fort McClellan, Alabama

Two sites were selected at each installation after a reconnaissance of the general areas available to us. The sites were selected so there would be a maximum chance of availability within the next few years if vehicle tests were desired. In addition, the following considerations were used in site selection:

- a) relatively free of heavy ground cover so that the surveying operation would not be unduly hampered,
- b) relatively near access roads,
- c) relatively flat and of fairly uniform roughness characteristics over fairly large areas,
- d) relatively undeformed by vehicles.

Under no circumstances was it very difficult to meet the above conditions.

In all cases, the commanding officers and personnel of the installations gave outstanding cooperation.

In addition to the data collected above, other survey data are available at MASC. These data will also be included in the atlas. The locations of these additional sit are as follows:

- 9. Fort Knox, Kentucky
- 10. Aberdeen Proving Grounds, Maryland
- 11. Yuma Test Station, Arizona
- 12. Las Vegas, Nevada (Mercury Test Site of AEC)

Vehicle tests were conducted at Fort Sill, Las Vegas, and Thailand along with elevation surveys. Only the survey data associated with the first two vehicle test sites will be reported upon here; the vibration data will be discussed in a subsequent report. The Thailand data are on a road rather than open ground, and thus will not appear in this atlas.

With respect to the surveying program, a number of decisions were made by MASC.

It was decided to survey two sites at each installation, preferably of different character. Each site would provide area and line data. Preliminary reconnaissance indicated (see [1] for a discussion of details in planning experiments of this type) that a two-foot spacing would be sufficiently close to include all significantly high frequencies without aliasing. (Observation of the vehicle trials at Fort Sill suggests, however, that closer spacing may be necessary on rocky ground.) The number of data points in a square was decided to be 10,000 (100 x 100) and for the line 500. The dimensions of the squares, therefore, were 200 ft. x 200 ft. and the lines were 1000' long. For convenience, we required the line to go through the center of the square. However, the angle of the line to the side of the square was left to the surveyors and a variety of angles was expected and obtained from the different sites.

Preliminary discussion with John Chen, a professional land surveyor, indicated that normal horizontal and vertical control within 1/100 of a foot and horizontal control 2/100 of a foot could easily be obtained. This is well within limits required by the dynamic problem. In view of the fact that loose material on the surface of the ground will give comparable deviation, the control was deemed adequate.

A survey crew was organized under the leadership of Dr. Jay Barton, a biophysicist at St. Joseph College, Rensselaer, Indiana. The crew consisted of Arthur Hawkins, Donald Paarlberg, Jr., John Foster, Paul F. Chenea, Jr., and William Whistler. Of these Dr. Barton and Arthur Hawkins had surveying experience. The others were college students on summer vacation.

Under the direction of Dr. Barton, and with advice of Mr. John Chen, equipment and other necessary items were selected and acquired. The equipment and crew were fitted into a standard Chevrolet Station Wagon rented for the purpose. There was a short training period during which the crew practiced stowing the equipment and carrying out the surveys. The tour was completed ahead of schedule without mishaps to personnel or equipment.

On the average, it took four days to complete the surveys at an installation and approximately one and a half days to travel between installations. Approximately 180,000 data points were acquired by this crew.

The surveying equipment included the following major items:

- 2 Repeating Theodolites, K&E 730050
- 2 Self-Leveling Zeiss Levels, K&E 750020
- 2 Lenker Elevation Leveling Rods

In addition, the equipment included both steel and cloth tapes, marking pins, range poles, etc. A complete list of surveying equipment is given in Appendix A.

In addition to the survey data, the following data were acquired at each site. The reconnaissance party located the survey sites on topographical maps, and marked them on the ground with paint, plastic tape, etc. The orientation of the survey lines and squares was noted by the survey party. Verbal descriptions were made and in some cases photographs were taken to further identify sites.

The survey data plus the other material discussed above taken at a site were returned each week to MASC by registered mail. On his return from the surveying operations, Dr. Barton put the survey data in order for data processing. Dr. Barton also remained on the staff of MASC to assist in the data processing.

The data were put on IBM cards, the cards were preprocessed to remove the instrument height and compare each
data point with its nearest neighbors. The output was
listed and large deviations were marked by an asterisk.
These marked points were compared by Dr. Barton with the
data in the survey books and any errors were corrected.
The corrections were not made on the IBM cards but rather
on the input tapes. Both cards and tape are stored at
MASC and copies are available at cost upon request.

This report is the first of two reports. In this report, we shall be concerned with presenting the computational results, the site description, and the computing programs. Conclusions and recommendations will be concerned with data acquisition methods and processing. The second report will deal with the interpretation and implication of these results.

OBJECT

The object of this report is to present the results of mid-continent surveys and the computations performed. Interpretations will, to a large part, be presented in the next report. Recommendations will be limited to the recording, acquisition, and processing of the data.

SUMMARY

A short description is given of the survey methods and the equipment used. This is followed by a table listing all site locations and orientations of the squares and line surveyed. The results (p.s.d.'s in numerical form and graphs of the p.s.d.'s) of one-dimensional (line) surveys are presented next; results for parallel lines are also included. The section which follows presents similar results for two-dimensional (area) data.

Complete descriptions of the two computer programs are given.

CONCLUSIONS

The p.s.d.'s obtained from the data taken at the additional sites show the same general features noted in the previous report.

Rod and level survey methods of data acquisition are cheap and efficient.

RECOMMENDATIONS

Further data acquisition by the methods used for the purpose of enlarging this atlas are not recommended.

When roughness data are required for special purposes, however, the rod and level method used is recommended. Self-leveling levels and self-zeroing rods are recommended as basic equipment.

SITE DESCRIPTION

Survey sites are located with reasonable accuracy on topographical maps along with verbal descriptions and in some cases photographs. No attempt was made to preserve the exact locations of data points; first, this is not relevant from the point of view of p.s.d. analysis; second, to do this, permanent markers would have had to be erected and permission to do this was thought to be hard to obtain. At this point, it should be emphasized that the data were acquired to make a statistical estimate of a roughness characteristic and not to provide an exact description of ground elevation. Our results should be regarded as reproducible within the statistical accuracy to be described later. For this reason, the exact relocation of data points is considered to be unnecessary.

If vehicle tests are to be conducted at a site at which a survey has been made, our results will be useful in general selection considerations. When vehicle tests are made, our exact site might not be the most convenient; even if it is, ground deformation may occur due to a variety of factors associated with vehicle weight, ground moisture, etc. Hence, surveys along actual tracks may prove necessary.

The site description information is summarized in Table I. Additional information is available at MASC.

The sites coded by letters A-U are those surveyed in the summer of 1964. Some additional lines were surveyed at Ft. Sill in connection with vehicle trials conducted there. Lines L and M are on half of the previously surveyed lines of G and H. In particular, care was taken in conducting the trial at Site 2 so that the wheel track was exactly on the 1000 foot line and so the first half of line H represents the ground heights before and M the ground heights after modification by the vehicle.

The remaining sites, given by names, were surveyed earlier.

Revised 8/8/66

			-9-				
ANGLE OF LINE WITH X-AXIS, DEGREES COUNTER- CLOCKWISE	4	OR	160	135	11	63	
AZIMUTH OF X-AXIS DEGREES E Of NO.	15	335	280	5	340	170	320
MAP LOCATION	USGS Ft. Riley, Kan Twp. 11s, R. 5E, Sec. 6	USGS Ft. Riley, Kan. Twp. 10S, R. 5E, Sec. 12	USGS Webber's Falls Twp. 14N, R. 20E, Sec. 11	USGS Webber's Falls Twp. 14N, R. 20E, Sec. 23	USGS Timber Mountain Twp. 17S, R. 67W, Sec. 1	USGS Timber Mountain Twp. 17S, R. 67W, Sec. 1	USGS Cache Twp. 3N, R. 13W, Sec. 20 & 21
INSTALLATION	Fort Riley, Kan. W. of Manhattan	Fort Riley, Kan.	Camp Gruber, Okla. B. of Muskogee	Camp Gruber, Okla.	Ft. Carson, Colo. S. of Colo. Sprgs.	Ft. Carson, Colo.	Ft. Sill, Okla. N. of Lawton (Site 1)
SITE	4	æ	ပ	Q	ра	(Sta	ဗ

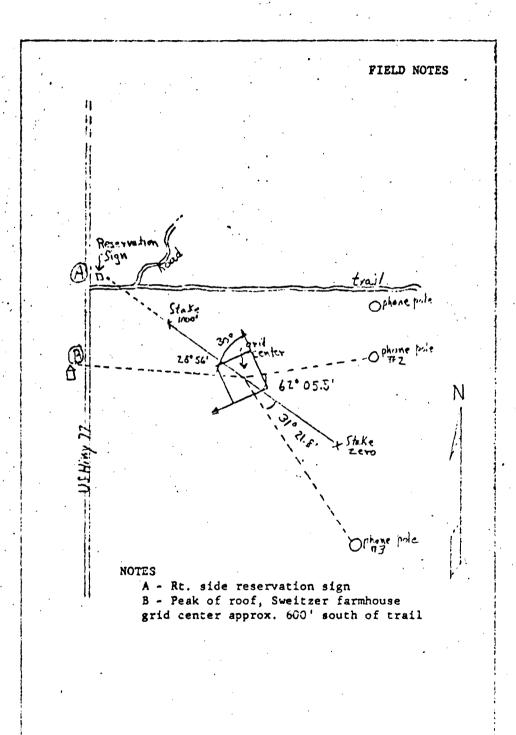
					-10-				•	
Revised 8/8/66	ANGLE OF LINE WITH X-AXIS DEGREES COUNTER- CLOCKWISE	128	Azimuth 129	Azimuth 173	Azimuth 318	Azimuth 313	16	35	50 (900' Line)	
Rev	AZIMUTH OF X-AXIS DEGREES E. of N.	260	No Square Two Track Line	No Square Two Track Line	No Square Two Track Line	No Square One Track Line	136	41	180	
•	MAP LOCATION	USGS Cache Twp. 3N, R. 13W, Sec. 20 & 21	Same as above	Same as above	Same as above	Same as above	USGS Fort Hood 970 50'W, 310 12'N	USGS Fort Hood 970 53'W, 310 11'N	USGS Slagle Twp. 2N, R. 7W, Sec. 23	
(Cont'd.)	INSTALLATION	Ft. Sill, Okla. (Site 2)	Pt. Sill, Okla. (Site 3)	Ft. Sill, Okla. (Site 4)	Pt. Sill, Okla. (Site 1)	Ft. Sill, Okla. (Site 2)	Ft. Hood, Tex. N. of Killeen	Pt. Hood, Tex.	Ft. Polk, La. E. of Leesville	
Table I	SITE	Ħ	D.	×	ı	X	2 .	o	Ω,	

					-11	• 			
MeV1Sed 8/8/66	ANGLE OF LINE WITH X-AXIS DEGREES COUNTER-	CLOCKWISE 90 (900' Line)	176	45	0	45			No Line
	AZIMUTH OF X-AXIS DEGREES	140	335	176	130	186			355
	MAP LOCATION	USGS Slagle Twp. 2N, R. 7W, Sec. 23		USGS Columbus Mil Grid 934698	USGS Anniston Twp. 15S, R. 7E, Sec. 16	USGS Anniston Twp. 15S, R. 8E, Sec. 2	No Data	No Data	Army Map Serv. 10-55 600060 Sheet 37591 NE Ser. V835 Mil Grid 863049
	INSTALLATION	Ft. Polk, La.	Ft. Benning, Ga. S. of Columbus	Ft. Benning, Ga.	Ft. McClellan, Ala. N. of Anniston	Ft. McClellan, Ala.	Aberdeen Proving Grounds, Md.	As Above	Pt. Knox, Ky.
	SITE	O .	αŧ	တ	£4	ם	Aberdeen 1	Aberdeen 2	Knox 1

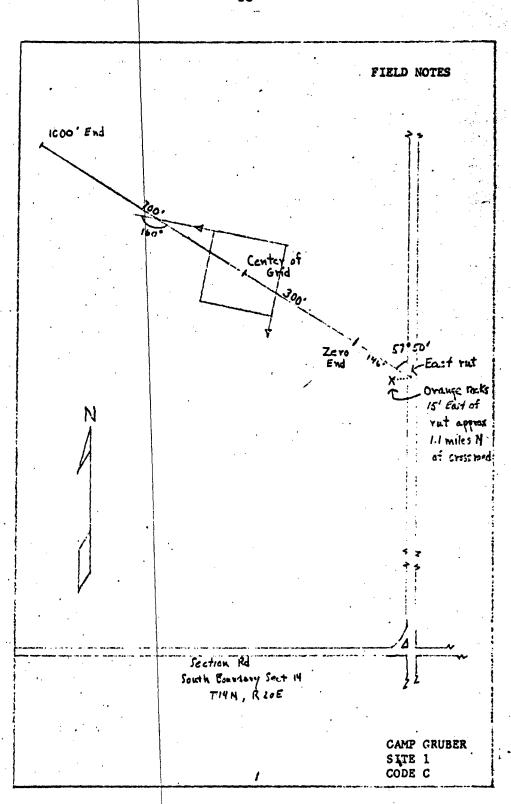
Table I (Cont'd)	(Cont'd)		KGVI	revised o/ou
SITE	INSTALLATION	MAP LOCATION	AZIMUTHOF OF X-AXIS DEGREES E Of N.	ANGLE OF LINE WITH X-AXIS DEGREES COUNTER- CLOCKWISE
Yuma 1	Yuma Test Station N. of Laguna, Ariz.	USGS Laguna 114 ^o 24.2'W 32 ^o 55'N	290	No Line
Yuma 2	Yuma Test Station	USGS Laguna 32° 51.7'N 114° 22.5'W	227	155
Las Vegas	s AEC Nevada Test Site Mercury, Nevada	On Buckboard Mesa	No Square	Azimuth 118

- 12 -

FT RILEY SITE 1 CODE A



FT RILEY SITE 2 CODE B



FIELD NOTES

A triangulation station

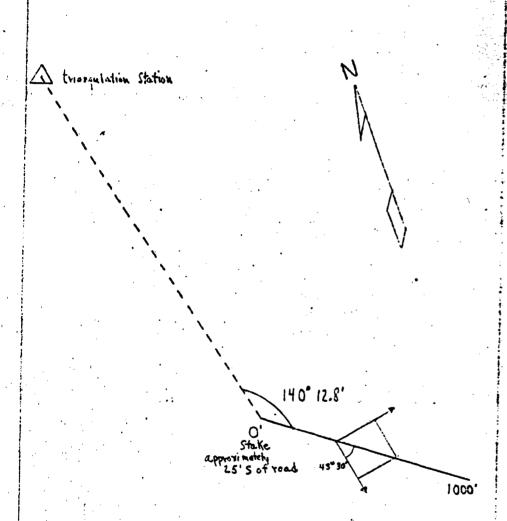
NA

Bearing of line N3'30'E grid azimuth 156° 19.2'

O'Stake approximately 25'N ct road

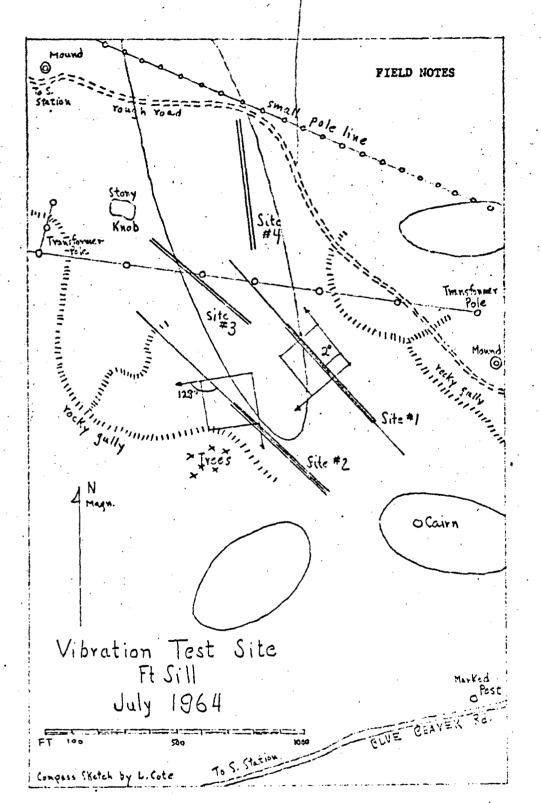
FT CARSON SITE 1 CODE E

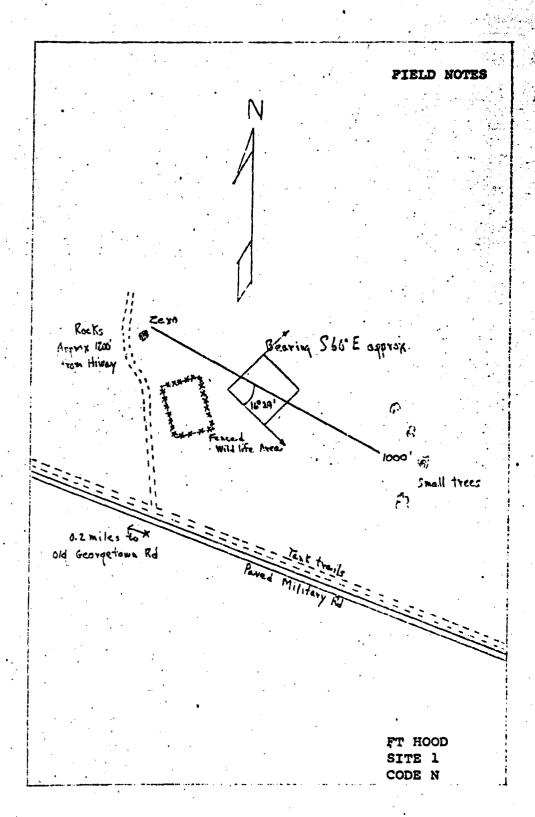
EIELD NOTES

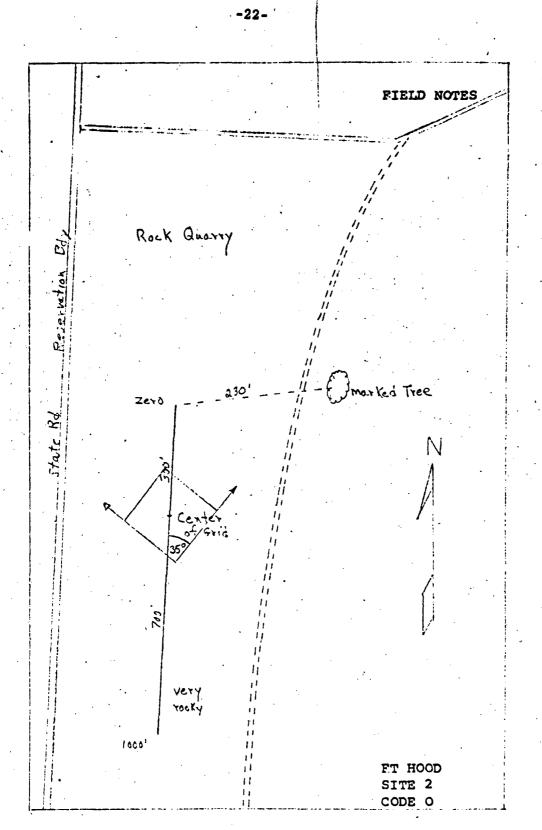


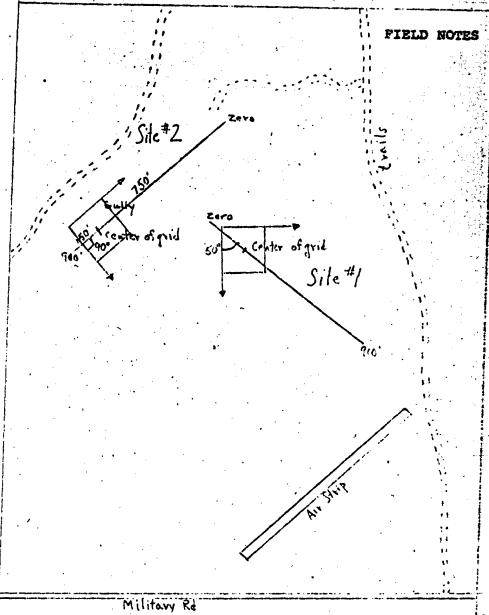
Bearing of line \$ 52° 30' Egrid azimuth

FT CARSON SITE 2 CODE F



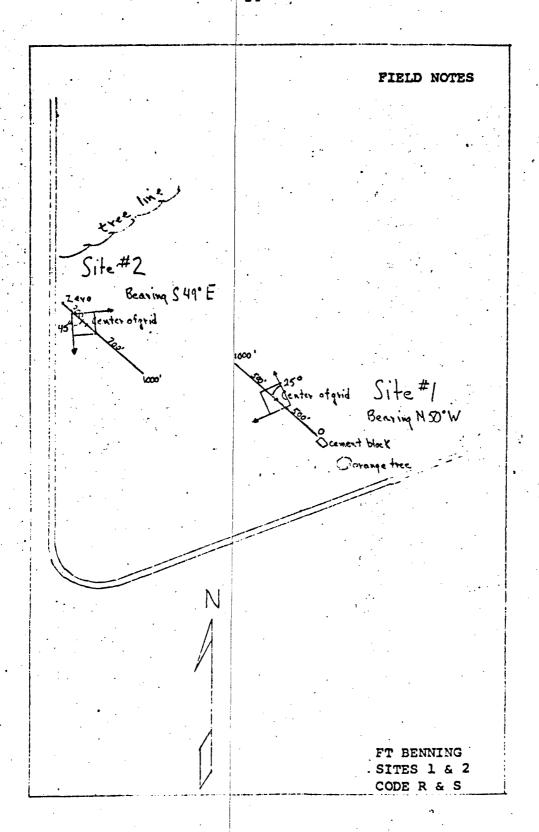


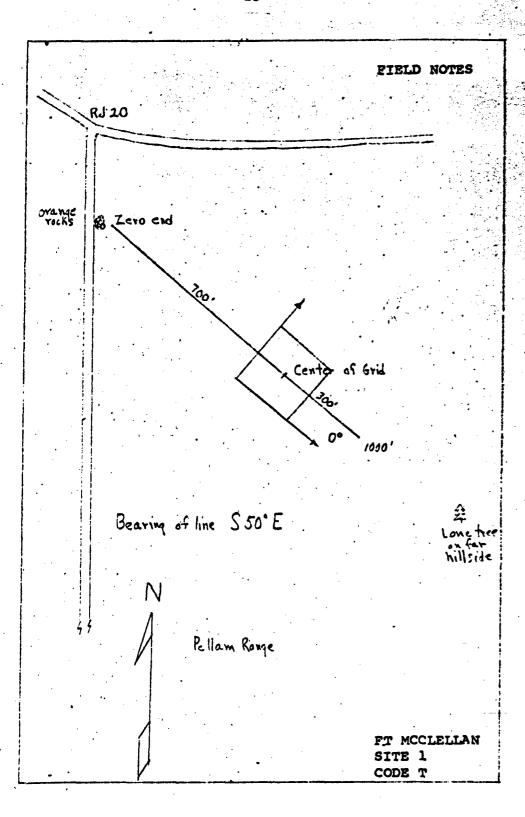


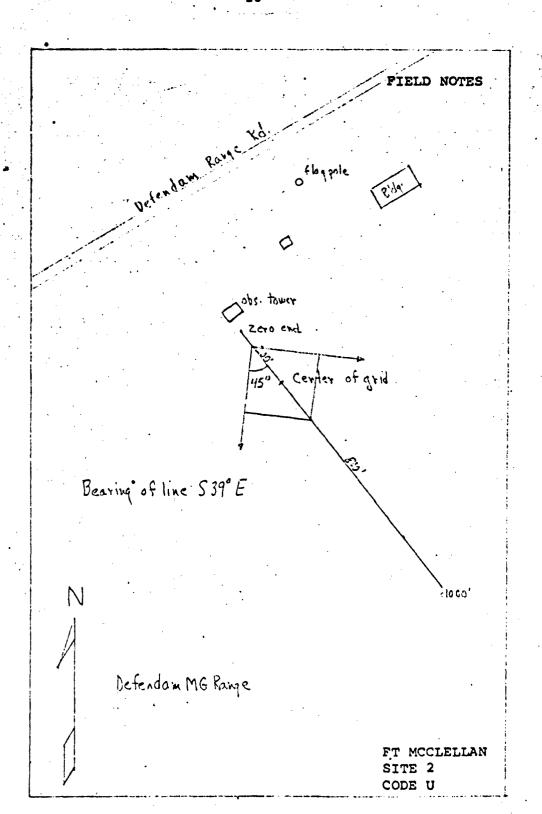


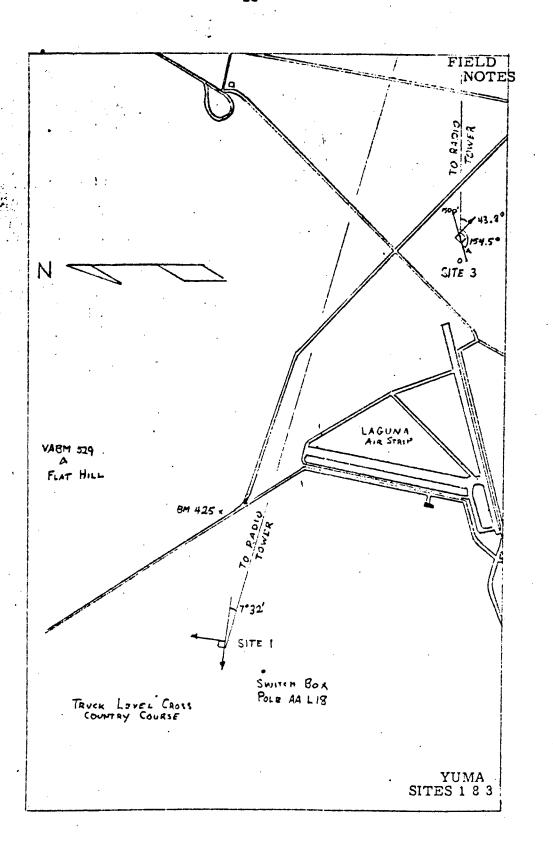
Range Flag

FT POLK
SITES 1 & 2
CODES P & Q









LINE SPECTRA

Our methods of obtaining p.s.d. estimates for line data are described in [1]. They will not be repeated here. However, a description of computation is given in the section on computations.

We present in this section the spectral estimates in a numerical table, and graphs on semi-log paper of the spectral estimates. Each of the two-track spectra will be graphed on the same sheet for comparison purposes.

Co-spectra between parallel lines are needed in vehicle motion analysis. They have been computed where parallel line surveys were conducted. These co-spectra are presented in tabular form only, since plots are difficult to interpret.

The statistical accuracy of the spectra of the 1000 feet lines may be given in several ways. Each estimate has 18 degrees of freedom or, in other words, a confidence interval at 95% confidence may be found by using the factors .571 and 2.186. [We are 95% confident that the true spectral value lies between .571 times the estimate and 2.186 times the estimate.] The computations are made according to pp 28-30 of [1].

The raw elevation data on IBM cards may be obtained at cost from MASC.

```
RILEY 1 LINE A
SPECTRAL ESTIMATES FOR
      ITEM A
           2.544E 01
           2.088E 00
    2
    3
           2.998E-01
           9.556E-02
    5
           9.669E-02
           7.378E-02
    6
    7
           3.810E-02
           1.793E-02
    8
           1.836E-02
    9
           2.130E-02
   10
   11
           2.396E-02
   12
           3.677E-02
   13
           3.706E-02
   14
           2.054E-02
   15
           1.147E-02
           8.753E-03
   16
           6.620E-03
   17
           6.884E-03
   13
           7.776E-03
   13
           7.851E-03
   20
           7.742E-03
   21
           8.993E-03
   22
   23
           9.915E-03
           7.609E-03
   24
           5.666E-03
   25
           8.499E-03
   26
           1.122E-02
   27
           1.272E-02
   28
           1.267E-02
   29
           1.088E-02
   30
           9.100E-03
   31
           7.546E-03
   32.
           6.229E-03
   33
           4.186E-03
   34
           4.337E-03
   35
           5.787E-03
   36
           4.834E-03
   37
           4.550E-03
   38
           5.406E-03
   39
   40
           5.327E-03
           5.308E-03
   41
           5.299E-03
    42
           4.685E-03
    43
           4.082E-03
    44
           4.433E-03
    45
           6.458E-03
    46
    47
           8.227E-03
    48
           6.721E-03
           5.557E-03
    49
           6.120E-03
    50
```

•

```
SPECTRAL ESTIMATES FOR
                              RILEY 2 LINE B
     ITEM A
           1.203E 00
           2.243E-01
           1.087E-01
           8.534E-02
           4.978E-02
           2.396E-02
    7
           3.125E-02
    8
           5.646E-02
    9
          7.093E-02
   10
           6.972E-02
   11
           6.049E-02
   12
   13
           3.073E-02
   14
           4.087E-02
   15
           5.175E-02
   16
           6.365E-02
   17
           6.771E-02
   18
           5.056E-02
   19
           2.838E-02
   20
           1.795E-02
   21
          2.265E-02
   22
          3.071E-02
   23
          2.921E-02
   24
          2.438E-02
   25
          2.787E-02
   26
          3.355E-02
   27
          3.011E-02
   28
          2.427E-02
   29
          2.103E-02
   30
          2.478E-02
   31
          3.032E-02
   32
          2.826E-02
   33
          2.805E-02
   34
          2.617E-02
   35
          2.042E-02
  36
          1.978E-02
   3.7
          2.169E-02
   38
          1.998E-02
   39
          1.759E-02
  40
          1.670E-02
  41
          1.269E-02
  42
          1.100E-02
  43
          1.791E-02
  44
          2.603E-02
  45
          2.125E-02
  46
          1.073E-02
  47
          9.850E-03
  48
          1.200E-02
  49
          1.544E-02
```

1.863E-02

P	WX(P)
P 01234557390123456789012345678901234567890123456789012345678901234567890123456	WX(P) 2.149E 00 2.880E-01 6.543E-02 1.565E-02 1.711E-02 2.033E-02 1.835E-02 1.607E-02 1.239E-02 1.942E-02 1.338E-02 1.534E-02 1.142E-02 6.170E-03 5.095E-03 5.554E-03 6.106E-03 7.327E-03 9.803E-03 9.189E-03 7.117E-03 7.438E-03 6.614E-03 6.596E-03 9.730E-03 7.815E-03 8.589E-03 9.730E-03 8.589E-03 9.730E-03 8.589E-03 9.183E-03 9.183E-03 9.183E-03 9.183E-03 1.007E-02 8.365E-03 1.15E-02 1.144E-02 7.109E-03 4.818E-03 5.149E-03
42	1.115E-02
45	4.818E-03
46 47	5.149E-03 6.473E-03
48	6.293E-03
49 5 0	6.853E-03 8.048E-03
	,300,30

SPECTRA	L ESTIMATES FOR	GRUBER 2 LINE D	-34-
1.	TEM A	- · · · ·	
· 			•
P	WX(P)		and the second of the second o
		1	
Ç	1.905E 01	and the contract of the contra	who were the second of the second of
2	3.259E 00		•
3	8.841E-01	<u> </u>	اليوانين الوديرين الانتصابيط بيد البراني والوانوانية العالم. الأنوانية
4	3.690E-01		•
5	1.950E-01	a paga ang ang ang ang ang ang ang ang ang	
6	1.425E-01		
7	1.285E-01		
8	1.190E-01		Annual section of the
9	1.1858-01		
10	9.107E-02		and the control of th
11	5.692E-02		
12	4.256E-02 4.023E-02		And the second s
13 14	4.446E-02		•
15	4.998E-02		tion of the second seco
16	4.710E-02		•
17	3.143E-02		andrea de la como a como a de jarro de la como a desperante de la como de la
18			· · · · · · · · · · · · · · · · · · ·
19	3.701E-02		no mandra and mandra and mandra and and the state of the
2C	2.718E-02		
21	1.756E-02		· · · · · · · · · · · · · · · · · · ·
22	1.775E-02		e e de la companie de
23	1.660E-02		
24	1.721E-02		
25	2.067E-02		
26	1.911E-02		Addition titles colleges a designated signatures or electron streets or the colleges and the same streets.
27	1.374E-02		
28	1.255E-02 1.194E-02		······································
29 30	1.040E-02		
31	9.920E-03		e deservation de les designes de les designes de les des des des des des de la conference d
32	9.679E-03	•	• •
33	1.006E-02		The state of the s
34	1.124E-02		
35	1.163E-02	,	
36	1.027E-02		
37	8.567E-03		
38	7.415E-03		And the state of t
39	6.775E-03	•	_
4C	6.220E-03		
41	7.433E-03		
42 43	1.026E-02 9.497E-03		
44	6.022E-03		
45	5.512E-03		
46	5.822E-03		
····· 47	6.107E-03		
48	6.282E-03		,
49	4.647E-03		
50	3.736E-03	2:2	
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SPECTRAL ESTIMATES FOR
      ITEM A
           WX(P)
   0
   1
          2.411E 00
          2-971E-01
   3
          1.015E-01
          6.537E-02
          5-168E-02
   6
          3.770E-02
   7
          2.962E-02
          2.752E-02
   9
          2-460E-02
  10
          1.871E-02
  11
          1.333E-02
  12
          9-154E-03
  13
          6.060E-03
  14
          7.755E-03
  15
         1-298E-02
  16
         1.399E-02
  17
         1-167E-02
  18
         1.011E-02
  19
         8.764E-03
  20
         1.105E-02
  21
         1.597E-02
  22
         1.445E-02
 23
         7.454E-03
 24
         5.701E-03
 25
         7.580E-03
 26
         7-095E-03
 27
         6.790E-03
 28
         5.732E-03
 29
         3.538E-03..
 30
         3.776E-03
 31
         5.034E-03
 32
         5.237E-03
 33
         4.777E-03
 34
         4.040E-03
 35
```

4-127E-03

4.356E-03

3-822E-03

4-1405-03

5-120E-03

5-476E-03

5-847E-03

4.943E-03

2.794E-03

2.468E-03

3.352E-03

3.665E-03

3.471E-03

3.494E-03

4-302E-03

4.853E-03

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CARSON 1 LINE E

P	WX(P)
. 0	
1	9-254E 00
. 2	8-074E-01
3	2.365E-01
4	1.093E-01
. 5	5.708E-02
7	3.408E-02 1.997E-02
8	1.198E-02
9	1.065E-02
10	1.0715-02
11	1.153E-02
12	1.203E-02
13	1.184E-02
14	1.270E-02
15	9.685E-03
16	5.107E-03
17 18	5.396E-03 5.540E-03
19	4.689E-03
20	5.954E-03
21	6-193E-03
22	4.367E-03
23	3.330E-03
24	4.511E-03 5.787E-03
25	5-787E-03
26	5.838E-03
27	5.847E-03
28 29	4-197E-03 3-455E-03
30	4.604E-03
31	3-809E-03
32	2.617E-03
33	3-245E-03
34	5.835E-03
35	7-199E-03
36	5.620E-03
37	3.893E-03
38 39	3.313E-03 2.983E-03
40	2.369E-03
41	1.949E-03
42	1.7335-03
43	2.866E-03
44	4.904E-03
45	4-194E-03
46 47	2.886E-03
47	4.084E-03 5.077E-03
48 49	5.077E-03 4.192E-03
50	3.344E-03

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P	WX(P)	
0		
1	2.405E 01	•
2	2.761E 00	
3	1.296E 00	
4	6.264E-01	
5	2.741E-01	
6	1.579E-01	
7	1.290E-01	٠
8	7.999E-02	
9	3.755E-02	•
	2.126E-02	
10	1.836E-02	
11		
12	2.173E-02	
13	1.874E-02	
14	1.608E-02	
15	1.791E-02	
16	1.915E-02	
17	1.858E-02	
13	1.466E-02	
19	1.503E-02	
20	1.496E-02	
21	1.066E-02	
22	1.032E-02	
23	9.479E-03	
24	8.905E-03	
25	1.032E-02	
26	1.046E-02	
27	1.253E-02	
28	1.309E-02	
29	1.105E-02	
30	1.301E-02	
31	1.293E-02	
32	1.013E-02	
33	1.229E-02	
34	1.227E-0Z	
35	1.101E-02	
36	1.210E-02	
37	1.250E-02	
38	1.455E-02	
39	1.439E-02	
40	1.191E-02	
41	1.003E-02	
42	8.425E-03	
43	9.439E-03	
44	1.121E-02	
45	1.077E-02	
46	1.017E-02	
47	8.973E-03	
	6.466E-03	
48	7.605E-03	
49 50	9.717E-03	
71)	701415 77	

Р	WX(P)
0	_
1	3.489E 01
. 2	4.077E 00
3	1.342E 00
. 4	7.074E-01
5	3.865E-01
6 7	1.853E-01 1.196E-01
8	8.334E-02
9	5.525E-02
10	5.448E-02
11	
12	4.154E-02 2.404E-02
13	2.607E-02
14	2.634E-02
15	1.712E-02
16	1.632E-02
17 18	1.431E-02 8.266E-03
19	1.049E-02
20	1.037E-02
21	7.043E-03
22	7-252E-03 6-250E-03
23	6.250E-03
24	5.936E-03
25	8.731E-03
26	8.323E-03
27	7.559E-03
28 29	9.244E-03 6.715E-03
30	4.445E-03
31	4.353E-03
32	3.243E-03
33	6.118E-03
34	9.188E-03
35	5.945E-03
36	4.628E-03
37	6.348E-03
38	5.319E-03
39 40	6.480E-03 8.311E-03
41	5.677E-03
42	5.1048-03
43	6.289E-03
44	4.532E-03
45	4.892E-03
46	5.807E-03
47	5.060E-03
48	6.900E-03 6.405E-03
49 50	4.085E-03
J U	TOUJL UJ

ITEM A WITH ITEM 8

P	WX(P)	WY(P)	WC(P)	WQ(P)
0				* · · · · · · · · · · · · · · · · · · ·
i	6.952E-01	3.442E-01	**************************************	
2	6.791E-02	5-308E-02	2.549E-01	4.647E-02
3	3.980E-02	2.693E-02	1.405E-03	1.532E-02
4	3-300E-02	2.133E-02	5-117E-03	5-795E-03
5	1.926E-02	1.259E-02	2.112E-03	3-269E-03
6	9-251E-03	7.634E-03	1-121E-03	2.695E-03
. 7	7-337E-03	1.391E-02	2.285E-03	1.155E-03
. 8	9-890E-03	1.841E-02	1.476E-03	-2.079E-03 -3.354E-03
9	1.237E-02	1.314E-02	-7.704E-05	-1.531E-03
10	1.320E-02	9.343E-C3	-2.552E-03	1.134E-03
11"	1.409E-02	1.060E-02	-3.321E-03	1.5916-03
12	1.322E-02	1.251E-02	1.703E-04	-4.963E-04
13	1.420E-02	1.371E-02	1.211E-03	-2.805E-03
14	1.822E-02	-1-407E-02	-2.861E-03	-3.105E-03
15	1.582E-02	1.202E-02	-4.394E-03	-1.178E-03
16	9-434E-03	7.609E-03	-3.099E-03	3.777E-04
17	8.507E-03	5.884E-03	-1.766E-03	-1.760E-04
18	1.021E-02	8.042E-03	1-565E-03	-2.040E-03
19 20	1-160E-02	1.076E-02	2.859E-03	-3.591E-03
- 21 -	1.275E-02 1.094E-02	9.573E-03	1.719E-03	-3-181E-03
22	9.513E-03	6.726E-03	2.147E-03	-5.344E-04
23	9-229E-03	7.978E-03	3.028E-03	9-838E-04
24	8.047E-03	8.073E-03	1.777E-03	1.786E-04
25	8.402E-03	5•487E-03 3•942E-03	1.331E-03	-2.861E-05
26	1.122E-02	4.294E-03	-1.326E-03	4.780E-04
~ 27	1.5788-02	7.5138-03	4.909E-04 3.391E-03	1.086E-03
28	1.464E-02	8.818E-C3	-3.845E-03	7.769E-04
29	1.028E-C2	6.111E-03	-1.158E-03	4-450E-04
30	9.740E-03	3.748E-03	-1.263E-03	7-118E-04
31	9.486E-03	3.460E-03	-1.410E-03	9.056E-04 9.677E-04
32	7.391E-03	4.622E-03	-7.361E-04	2.271E-04
33	4.787E-03	6.866E-03	-5.066E-04	-9.257E-04
34	4.715E-03	9.287E-03	-1.664E-04	-1.236E-03
35	5-857E-03	8-5486-03	~9-511E-05	2.524E-04
_36 _37	5.462E-03	5.9226-03	1.991E-04	7.685E-04
38	5.952E-03	4.574E-03	-4.960E-04	-3.255E-C4
~39 	6.030E-03 5.929E-03	5.105E-03	-1.631E-03	-8-664E-04
40	7.857E-03	6.479E-03	-1.183E-03	-1.184E-03
41	8.236E-03	7-122E-03	-4.772E-04	-3.805E-04
42	8.376E-03	9-177E-03	-1.598E-C3	1.1985-03
43	8.818E-03	9.09%E-03 5.224E-03	-3.867E-03	1.296E-03
44	8.387E-03	4.352E-03	-2.958E-03	8-852E-04
45	8.888E-03	5.800E-C3	6.095E-04 1.122E-03	2-863E-04
46	7.710E-03	7.096E-03	4-686E-04	-1.902E-03
47	6.695E-03	6.508E-03		-3.181E-03
48	7.919E-03	4.433E-C3	-3.506E-04	-1.709E-03
49	7.576E-03	5.131E-03	-8.002E-04	-8.232E-04 -8.701E-04
50	6.576E-03	6.372E-03	3-021E-04	0.
	The second section of the second seco			~•

ITEM A WITH ITEM B

P	NX(P)	WY(P)	WC(P)	WQ(P)
0	-	-		~~~
	7.638E-01	1.158E 00	8.063E-01	2.484E-02
1	6.560E-02	1.031E-01	5.867E-02	-1-207E-02
_2	1.887E-C2	-4.012E-02	8.732E-03	-7.688E-03
3	2.137E-02	3.356E-02	5.033E-03	2.771E-03
		1.638E-02	3.125E-03	2.931E-03
. 5	2.492E-02	8.2628-03	1.0368-03	-1.511E-03
	2.279E-02	9.300E-03	1.786E-03	-2.497E-03
7.	2.054E-02		2.574E-03	1.405E-03
8.	1.873E-02	1.194E-02		4.690E-03
. 9	1.314E-02	1.497E-02	6.365E-04	2.402E-03
10	9.401E-03	1.509E-02	-1.339E-03	-2.849E-04
11	7.4758-03	1.559E-02	-2.021E-03	
12	5.427E-03	1.462E-02	-1.463E-03	-1.450E-03
13	6.817E-03	1.127E-02	2.834E-05	-2.946E-03
14	7.619E-03	1.140E-02	2.268E-04	-1.336E-03
15	6.564E-03	1.037E-02	8.631E-04	8.333E-04
16	7.655E-03	7.413E-03	1.545E-03	3.287E-04
17	8.933E-03	8.067E-03	-7.799E-04	1.089E-03
18	9.797E-03	8.906E-03	-1.387E-03	3.145E-03
19	1.009E-02	7.751E-03	-5.787E-05	3.520E-03
20	7.135E-03	6.901E-03	-1.256E-03	2.503E-03
21	5.074E-03	6.328E-03	-2.3C4E-03	6.229E-04
22	7.739E-03	6.211E-03	-8.474E-04	-1.578E-03
23	1.054E-02	6.790E-03	7.669E-04	-2.783E-03
24	1.021E-02	6.711E-03	8.139E-04	-3.687E-03
25	7.901E-03	5.956E-03	1.290E-03	-3.294E-03
26	6.108E-03	4.518E-03	1.7905-03	-1.532E-03
27	7.296E-03	5.857E-03	1.443E-03	-1.072E-G3
28	7.935E-03	8.148E-03	5.361E-04	-3.867E-04
29	5.540E-03	5.781E-03	-8.694E-04	8.913E-04
30	5.673E-03	4.227E-03	-6.702E-04	1.144E-03
31	8.589E-03	5.588E-03	4.455E-04	1.105E-C4
32	9.075E-03	5.157E-03	1.663E-03	-4.125E-04
33	8.580E-03	3.878E-03	2.808E-03	-2.786E-04
34	9.247E-03	5.307E-03	3.042E-03	-1.332E-03
35	8.514E-03	7.179E-03	2.768E-03	-2.430E-03
36	7.511E-03	8.578E-03	2.678E-03	-2.573E-03
37	8.600E-03	8.905E-03	2.052E-03	-1.576E-03
38	8.658E-03	6.384E-03	6.844E-04	-5.820E-04
39	6.569E-03	6.281E-03	3.020E-04	9.971E-04
40	5.433E-03	8.334E-03	6.153E-04	2.631E-03
41	5.428E-03	7.162E-03	4.444E-04	1.716E-03
42	5.522E-03	5.030E-03	-9.690E-05	3.786E-04
43	5.896E-03	3.665E-03	1.7725-05	-4.448E-04
44	6.516E-C3	3.309E-03	4.4558-04	-7.452E-04
45	·6.190E-03	5.364E-03	-5.500E-04	4.609E-04
46	4.146E-03	8.488E-03	-1.800E-03	9.644E-04
47	3.157E-03	9.392E-03	-1.925E-03	-3.890E-04
48	4.501E-03	6.192E-03	-1.066E-03	-1.183E-03
49	5.707E-03	4.837E-03	6.694E-05	-5.094E-04
50	5.936E-03	6.134E-03	5.073E-04	0.

ITEM A WITH ITEM 8

•		W/BL	NC (P)	L0/81
P	WX(P)	WY(P)	MG(P)	HQ(P)
0				
1	6.735E 00		6.607E 00	-2.643E 00
2	7.210E-01	1.204E 00	7.134E-01	1.858E-01
3	1.890E-01	2.674E-01	1.354E-01	-1.732E-02
4	9.047E-02	6.703E-02	4-1405-02	-1.641E-02
5	5.561E-02		2.094E-02 1.564E-02	3.908E-03 9.358E-04
6	4.214E-02 3.746E-02	1.929E-02 1.888E-02	9.838E-03	5.569E-04
8	2.956E-02	2.523E-02	5.596E-03	-7.549E-05
	2.193E-02	3.507E-02	- 9.065E-03	-4.137E-03
10	2.631E-02	3.198E-02	9.400E-03	-2.153E-03
11	2.663E-02	2.438E-02	2.013E-03	1.969E-03
12	1.749E-02	2-8735-02	-3.968E-03	3.858E-03
13	1.855E-02	2.932E-02	-2.944E-03	5.267E-03
14	2.548E-02	2.2446-02	2.517E-03	7.433E-03
15	"2.775E-02"	2.843E-02	6.566E-03	8.545E-03
16	2.493E-02	.3.475E-02	6.573E-03	1.278E-03
17	1.831E-02	2.855E-02	2.627E-03	-2.410E-03
18	1.509E-02	2.391E-02	-3.218E-03	1.145E-03
19	1.438E-02	2.135E-02	~3.810E-03	-8.075E-04
20	1.449E-02	1.964E-02	-9.209E-04	-2.679E-04
2:	-2.085E-02 2.775E-02	1.950E-02	-4.335E-03 -7.538E-03	2.817E-03 -2.100E-03
22 23	2.604E-02	1.671E-02 1.458E-02	~4.962E-03	-4.058E-03
24	2.2835-02	1.5895-02	-2.146E-03	-1.519E-03
25	1.902E-02	1.532E-02	-4.345E-04	-4.556E-03
26 .	1.159E-02	1.400E-02	-4.435E-04	-3.757E-C3
27	1.077E-02	1.736E-02	5.927E-04	2.51CE-03
28	1.651E-02	1.582E-02	2.479E-03	4.818E-03
29	1.8795-02	1.010E-02	2.409E-03	3-423E-03
30	1.502E-02	1.086E-02	1.229E-03	2.314E-04
31	1.531E-02	1-133E-02	-2.753E-03	. -1. 952E-03
32	2.181E-02	1.629E-02	-2.071E-03	4.557E-03
33	1.914E-02	2.846E-02	4.641E-03	7.914E-03
34	8.986E-03	2.826E-02	5.591E-03	2.533E-03
35	7.553E-03	2.4196-02	2.976E-03	2.767E-C4
36	1.103E-02	2.297E-02	-1.142E-04	1.252E-04 2.897E-04
37 38	1.368E-02 1.729E-02	1.545E-02 1.094E-02	-2.791E-04 3.241E-03	1.427E-03
39	1.597E-02	1.099E-C2	- 2.937E-03	1.936E-03
40	9.981E-03	8.030E-03	1.292E-03	1.866E-03
41	7.972E-03	7.584E-03	1.7446-03	2.9656-03
42	1.121E-02	1.254E-02	9.426E-04	4.684E-03
43	1.414E-02	1.548E-02	-1.535E-04	3.775E-03
44	1.202E-02	1.916E-02	3.373E-03	6.307E-04
45	1.058E-02	2.470E-02	7.836E-03	-1.144E-03
46	1.377E-C2	2.0605-02	4.600E-03	5.401E-04
47	1.5288-02	1.308E-02	5-6176-04	1.637E-03
48	1.414E-02	1.760E-02	1.554E-03	-6.991E-04
49	1.391E-02	2.838E-02 3.303E-02	4.4C2E-04 -1.289E-03	-1.950E-03
50	1.432E-02	J. JUJE-UZ	-1.207E-03	0.

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SPECTRAL ESTIMATES FOR
                             HOOD 1 LINE N ____-43-
      ITEM A
           WX(P)
          3.876E 00
    2
          1.138E 00
    3
          3-470E-01
    4
          8.701E-02
   5
          2.371E-02
   6
          1-104E-02
   7
          1.049E-02
   3
          1.139E-02
   9
          1.304E-02
  10
          1.558E-02
  11
          1-295E-02
  12
          7-419E-03
  13
          5-910E-03
  14
          6.767E-03
  15
          6-680E-03
  16
          5-441E-03
  17
          4-473E-03
  18
          5-409E-03
  19
          6.756E-03
  20
          6-375E-03
  21
          4.524E-03
  22
         3.4BZE-03
  23
         3-830E-03
  24
         4-104E-03
 25
         4-871E-03
 26
         6.377E-03
 27
         6-295E-03
 28
         4.917E-03
 29
         4-209E-03
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         3-631E-03
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         3-204E-03
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         4-137E-03
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         5.626E-03
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         7-015E-03
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         4.472E-03
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2.057E-03 1.663E-03

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SPECTRA	L ESTIMATES FO	R POLK 1 LINE P -45-
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P	WX(P)	
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1	5-966E 00	e de la companya de La companya de la co
2	7.111E-01	and the second of the second o
3	4.693E-01	
4	2.892E-01	i de la companya de
5	1.555E-01	•
6 7	9.170E-02 6.343E-02	
8	5.137E-02	
9	5.157E-02 5.256E-02	The second secon
10	5.533E-02	
11	5.101E-02	مستعقبها سيمان المراجعون بالمنازية الأفااء المتعالية بماضيها الالتا
12	5.379E-02	$A^{(k)}$
13	5.920E-02	en e
14	5-263E-02	•
15	4.841E-02	and the second s
16	5.835E-02	•
17	6.054E-02	And the second of the second o
18	4-147E-02	, \
12	3-281E-02	e e y se a describen <mark>sados que nobreso que a de</mark> n de la comercia de la comercia de desta de la comercia del la comercia de la comercia de la comercia del la comercia de la comercia del la comercia de la comercia del la come
20	4.090E-02	
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22	3.468E-02	•
23	2.616E-02	
24	2.228E-02	
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26	1.110E-02	
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,29	1-191E-02	
30	1.365E-02	and was a second of the second
31	1.614E-02	
32 33	1.815E-02	
<i>33</i> . 34	1.755E-02 1.668E-02	•
35	1.458E-02	And the second s
36	9.763E-03	
37	6.975E-03	
38	7.800E-03	•
39	8.930E-03	e promoto de la compansión de la compans
40	7.545E-03	
41	5.710E-03	• • • • • • • • • • • • • • • • • • • •
42	5.646E-03	
43	5.583E-03	
44	5.628E-03	
45	5.972E-03	
46	4.953E-03	
47	3.265E-03	
48	3.684E-03	
49	6.2668-03	
50	7.771E-03	
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P	WX(P)
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SPECTRAL ESTINATES	FOR BENNING 1 LINE R -47-
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3 6.736E-01 4 2.855E-01	
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7 9.200E-02	ر با ماه در
88-0219E-02 9 3.108E-02	
10 4.639E-02	
11 4.549E-02 12 3.441E-02	
13 3-159E-02	
14 3.600E-02 15 3.629E-02	
16 2.554E-02 17 1.489E-02	
18 1.124E-02	The same of the sa
19 1.256E-02 20 1.647E-02	
21 1.791E-02	
22 1.718E-02 23 1.626E-02	
24 1.359E-02 25 1.070E-02	
26 8.959E-03	
27 8.736E-03 28 1.179E-02	
29 1.332E-02	
30 1.185E-02 31 1.020E-02	
32 7.746E-03	
33 9.297E-03 34 1.425E-02	
35 1.458E-02 36 1.241E-02	
37 9.952E-03	
38 7.330E-03 39 5.136E-03	
40 3.967E-03 41 5.548E-03	
42 8.075E-03	andrigger of the first of the f
43 1.010E-02 44 1.301E-02	
45 1.433E-02	and provided the second of the
46 1.169E-02 47 9.461E-03	
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25 1.446E-	02 ,,
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33 9.945E-)3
34 1.503E-	
35 1.285E-0 36 7.019E-0	
37 4.865E-	03
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43 5.560E-	
45 5.437E-	
46 5.589E-)3
47 6.196E-0	
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8.902E-03

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SPECTRAL ESTIMATES FOR
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           3.132E-01
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           1.981E-01
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           1.847E-01
    7
           1.719E-01
    8
           1.128E-01
    9
           5.799E-02
   10
           5.017E-02
   11
           5.759E-02
   12
           4.475E-02
   13
           3.053E-02
   14
           3.013E-02
   15
           2.573E-02
   16
           1.611E-02
           1.014E-02
   17
   18
           8.613E-03
   19
           8.410E-03
   20
           9.478E-03
   21
           1.253E-02
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           1.082E-02
   23
           8.962E-03
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           1.299E-02
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           9.774E-03
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           7.661E-03
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           3.388E-03
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           2.884E-03
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           3.262E-03
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MCCLELLAN 2 LINE U

SPECTRAL ESTIMATES FOR NE V 2-TRACK -51-ITEM A WITH ITEM B WX(P) WC (P) 0 3.892E-02 -1.999E-02 2.576E-01 -1.501E-01 2.796E-02 2 1.080E-01 1.249E-02 -8.192E-04 3 8.461E-02 7.627E-02 1-410E-02 1.146E-02 6.418E-02 8.182E-02 1.729E-03 1.922E-02 3.906E-02 5.331E-02 1.129E-02 -1.348E-U3 2.470E-02 2.678E-02 1.047E-03 -2.704E-03 2.947E-02 2.131E-02 4.175E-03 -7.479E-03 8 3.035E-02 2.713E-02 4.116E-03 -5.792E-03 9 1.941E-02 3.583E-02 -5.550E-03 -1.787E-04 10 -1.049E-03 1.416E-02 4.250E-02 -2.783E-03 7.805E-03 11 1.442E-02 3.930E-02 -5.561E-03 12 1.208E-02 2.603E-02 3.610E-03 **-2.**152E-03 13 -7.072E-04 9.760E-03 1.262E-02 -1.387E-04 14 8.982E-03 9.557E-03 -1.141E-03 -1.115E-03 15 -8.751E-04 9.288E-03 1.547E-02 -2.514E-04 16 1.279E-02 1.988E-02 2.791E-03 3.554E-03 17 1.503E-02 1.793E-02 3.761E-03 3.123E-03 18 1.119E-02 1.260E-02 -1.007E-04 4.699E-04 19 8.692E-03 8.740E-03 -1.481E-03 2.104E-03 9.586E-03 -1.994E-03 9.929E-05 20 1.070E-02 1.198E-02 1.2998-02 -3.177E-03 -4.703E-03 21 22 1.075E-02 1.559E-02 -2.494E-03 -1-695E-03 1.642E-02 -1.675E-03 2.712E-03 23 8.342E-03 24 1.218E-02 -1.424E-03 1.334E-04 7.883E-03 1.137E-02 -3.852E-04 -3.342E-03 25 8.124E-03 -5.010E-03 7.306E-03 1.711E-02 1.444E-03 26 8.968E-04 -5.691E-03 27 7.526E-03 1.457E-02 9.151E-03 8.864E-03 1.0388-05 -2.680E-03 28 9.814E-03 9.117E-03 3.477E-04 -5.262E-04 29 1.035E-02 6.933E-04 -9.876E-04 30 6.958E-03 8.679E-03 2.428E-04 1.451E-04 4-342E-03 31 2.691E-05 4.496E-03 4.676E-03 -1.534E-04 32 4.288E-03 3.194E-04 -3.071E-04 33 5.194E-03 2.469E-04 1.034E-03 34 5.263E-03 8.326E-03 -6.932E-04 5.036E-04 35 5.838E-03 9.167E-03 -1.692E-03 -3.58ZE-04 36 7.342E-03 7.446E-03 5.964E-04 -3.773E-04 37 6.516E-03 7.631E-03 7.847E-04 4.506E-04 38 3.912E-03 8.602E-03 6-980E-05 -6.066E-04 39 2.168E-03 9.306E-03 8.534E-03 7.209E-04 -3.686E-04 40 1.755E-03 2.408E-04 2.461E-03 6.733E-03 1.613E-03 41 1.1728-03 -3.048E-04 42 3.697E-03 6.325E-03 1.442E-04 -1.332E-03 7.852E-03 43 4.920E-03 -5.9886-04 8.889E-03 -1.033E-03 44 4.475E-03 -2.182E-04 -7.4136-04 7.908E-03 45 3.684E-03 7.746E-04 -8.203E-04 4.293E-03 6.215E-03 46 5.247E-03 1.168E-03 -5.295E-04 47 5.031E-03 6.735E-03 7.8205-04 -E.038E-04 48 5.457E-03

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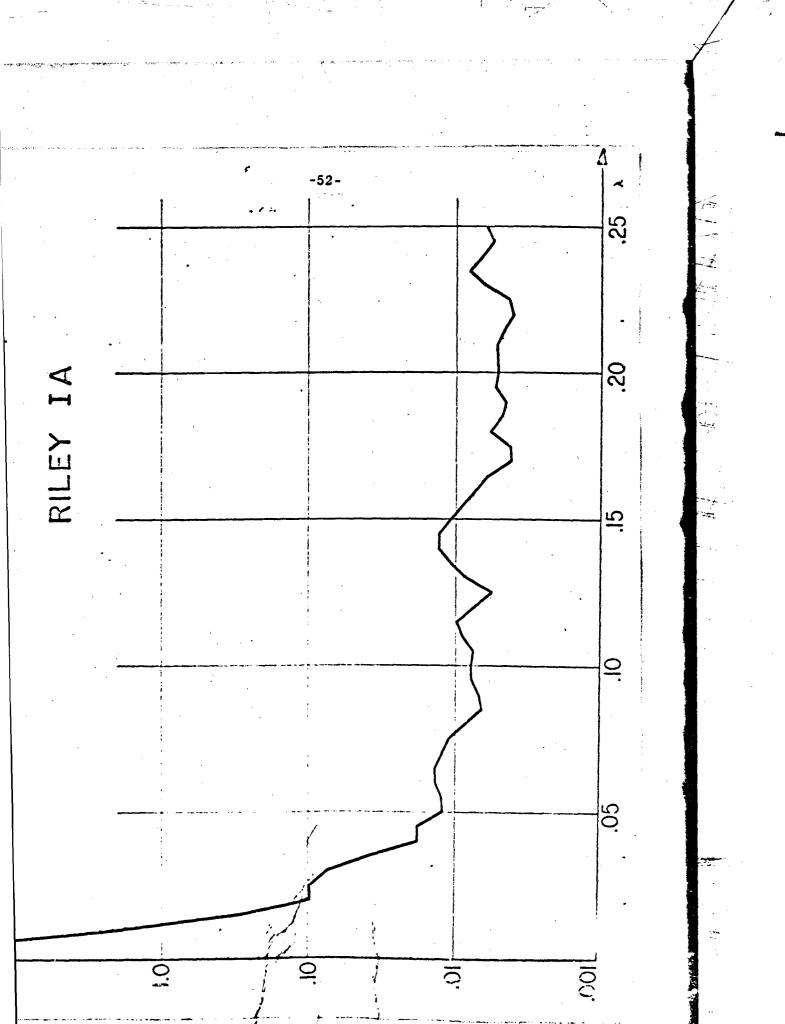
-6.352E-04

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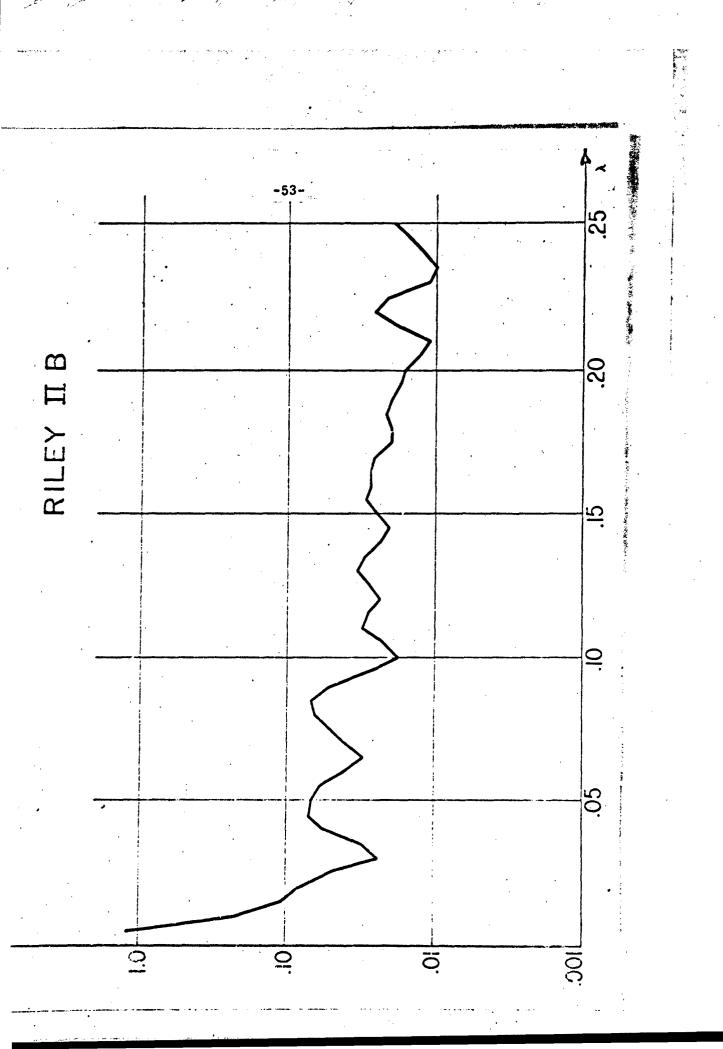
3.775E-03

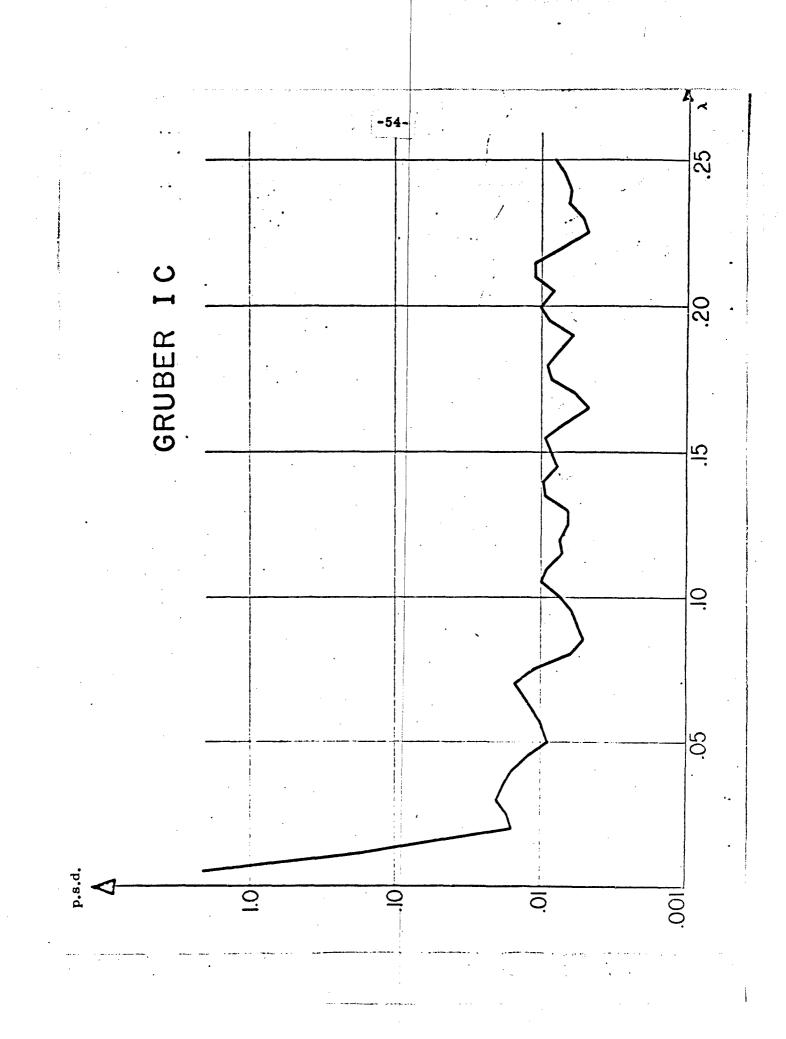
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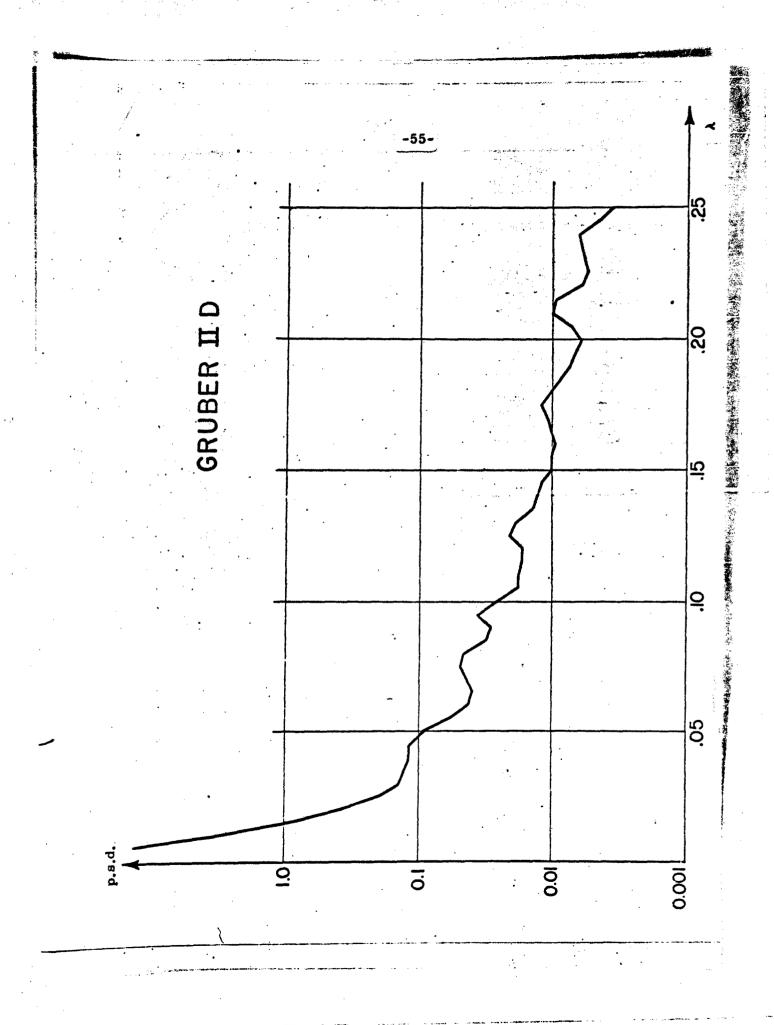
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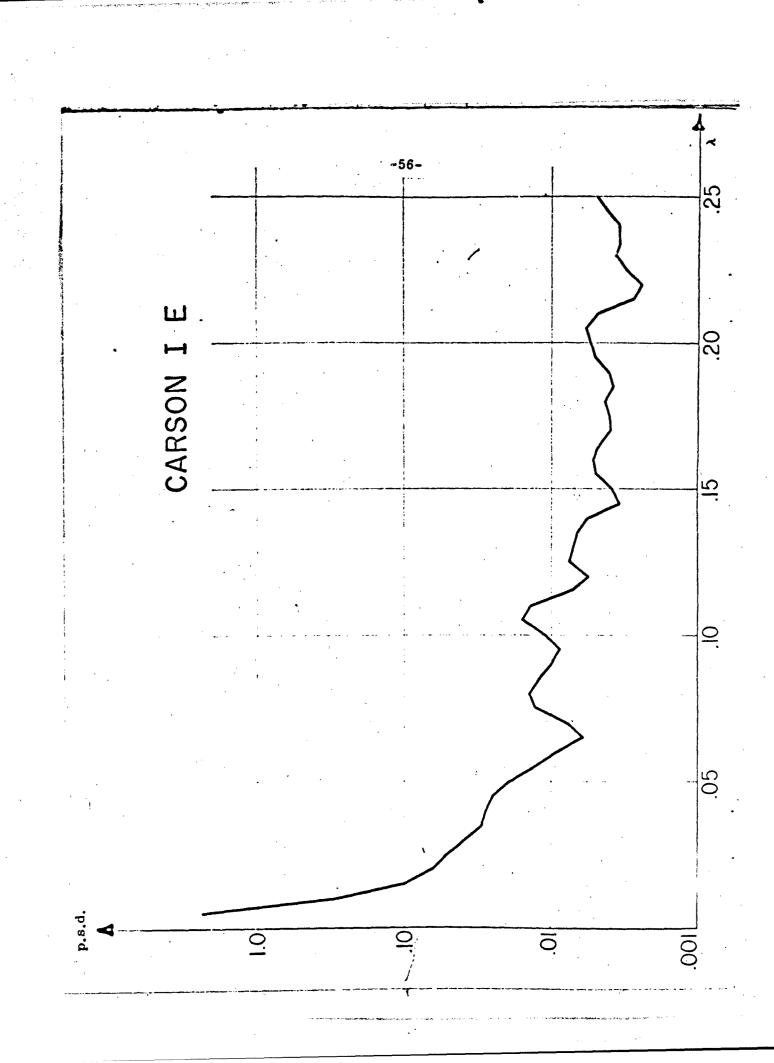


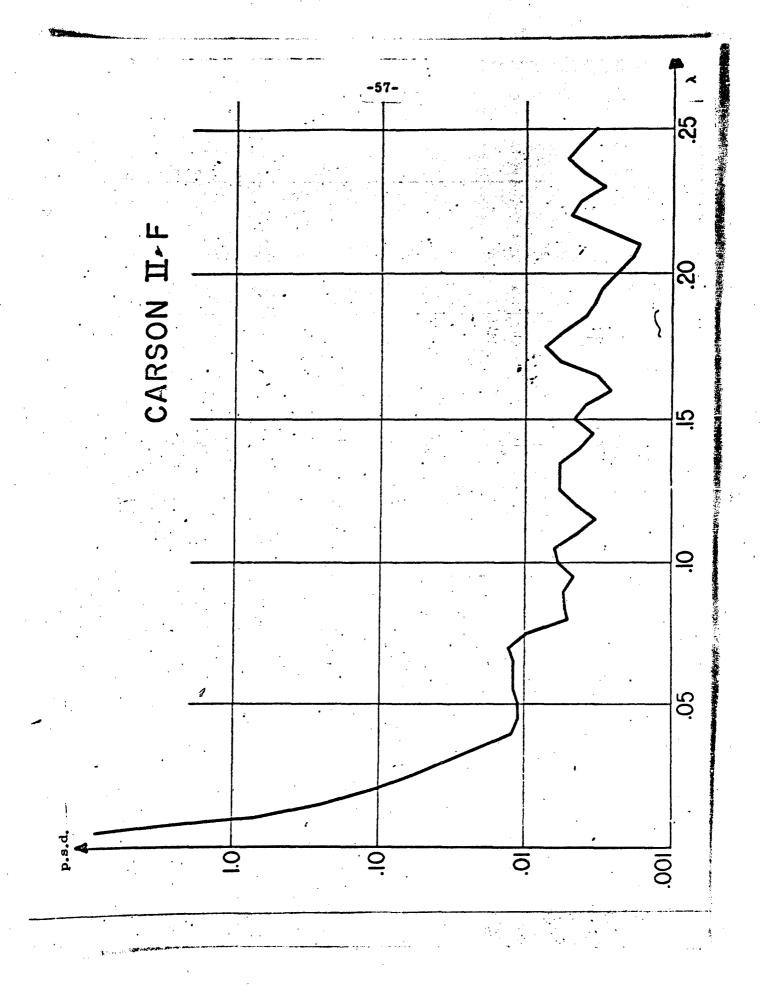
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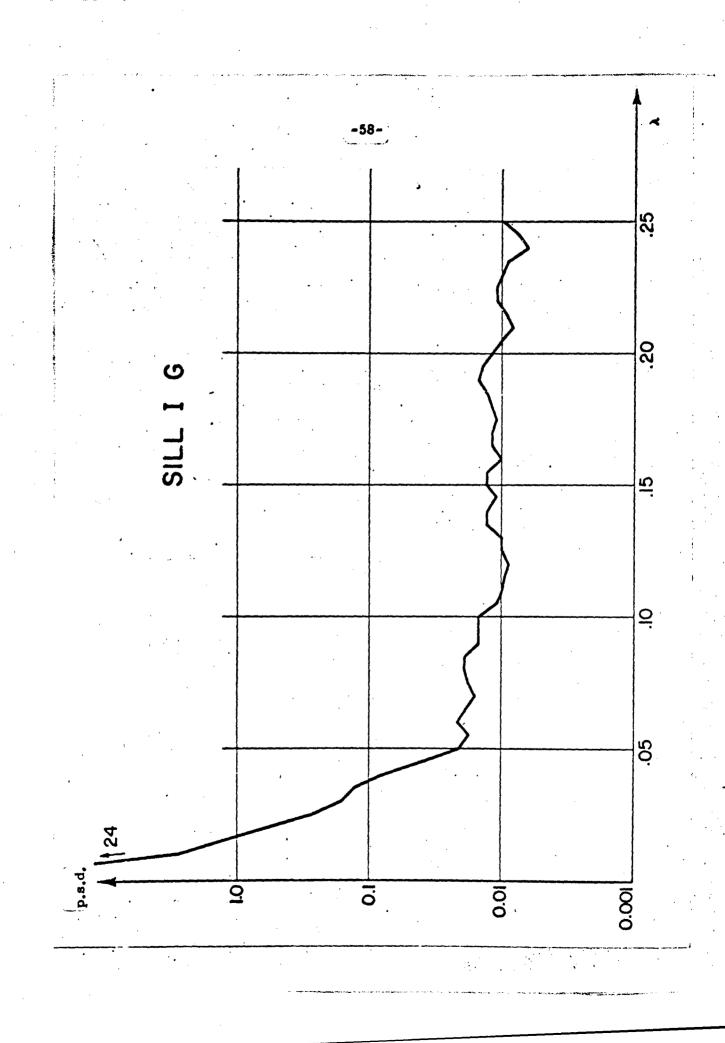


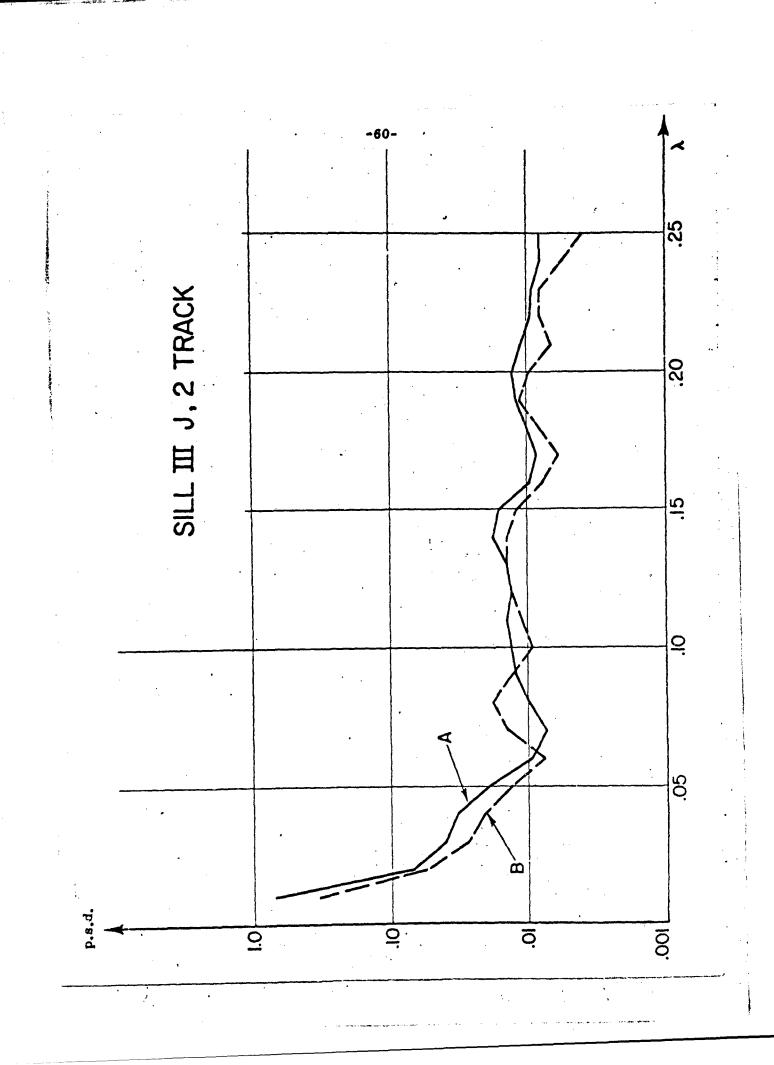


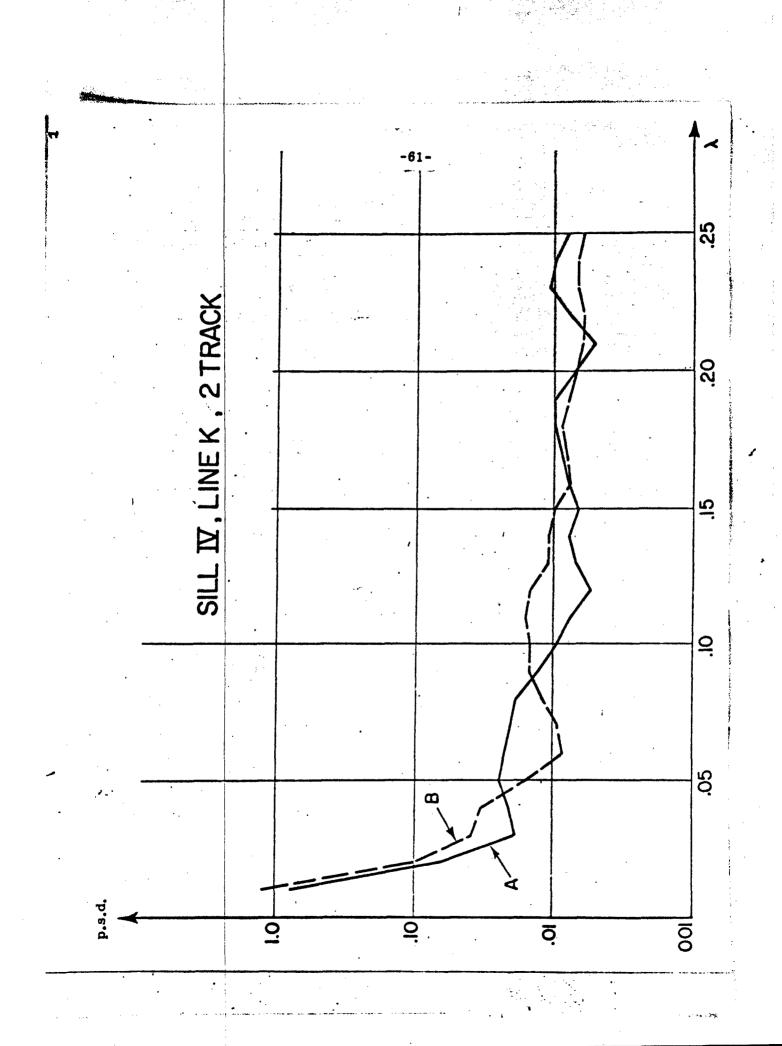


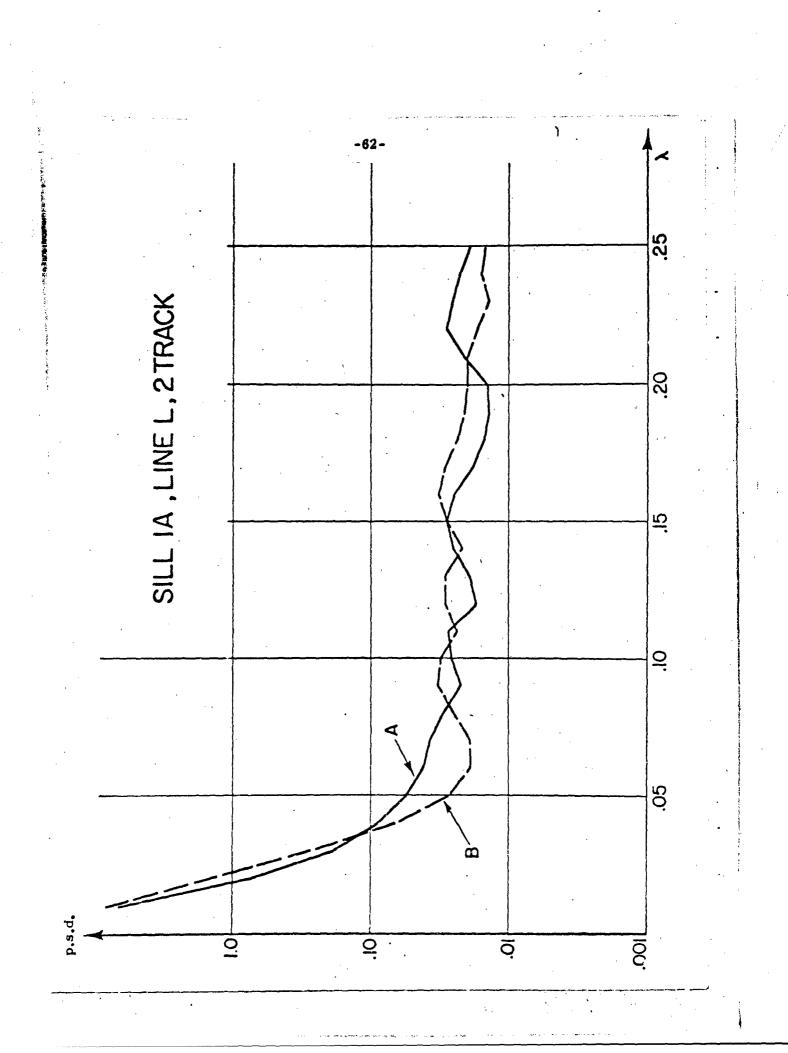


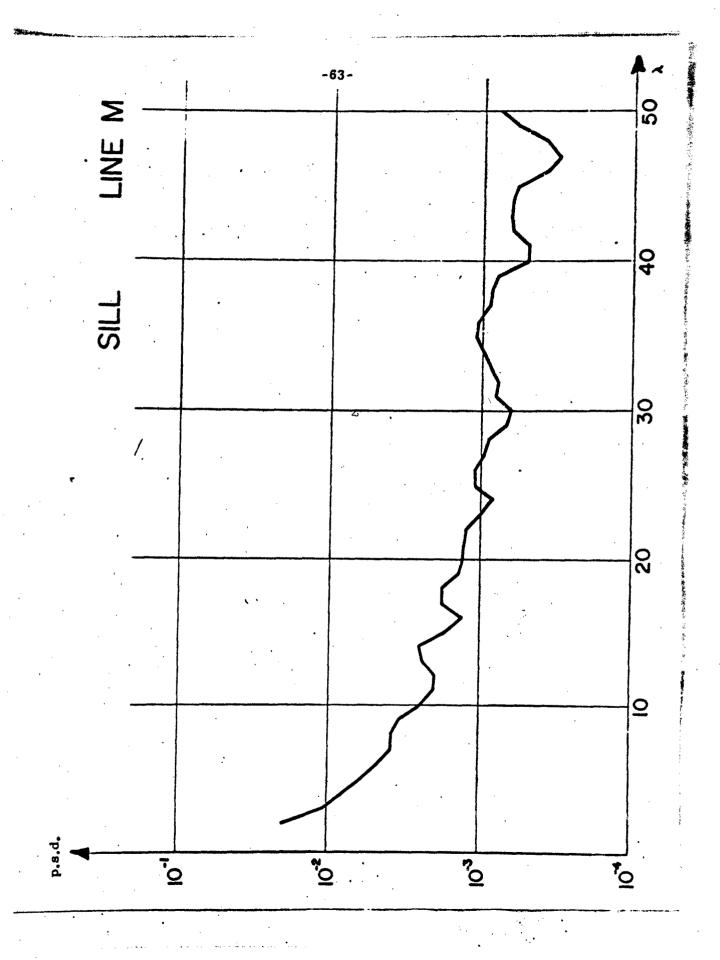


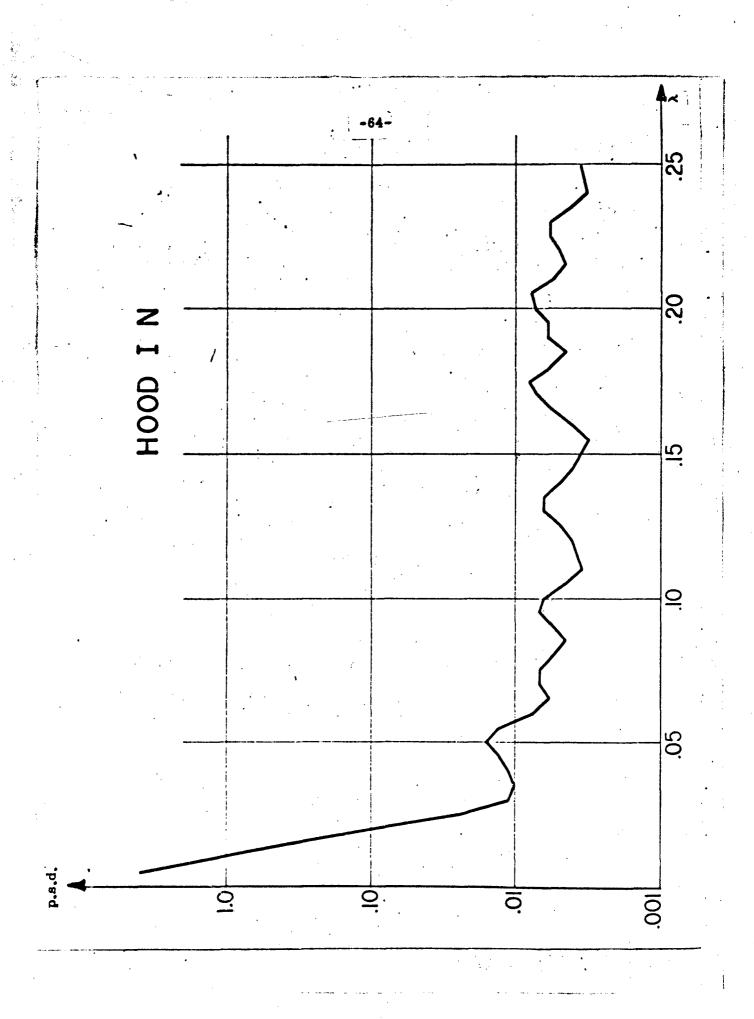


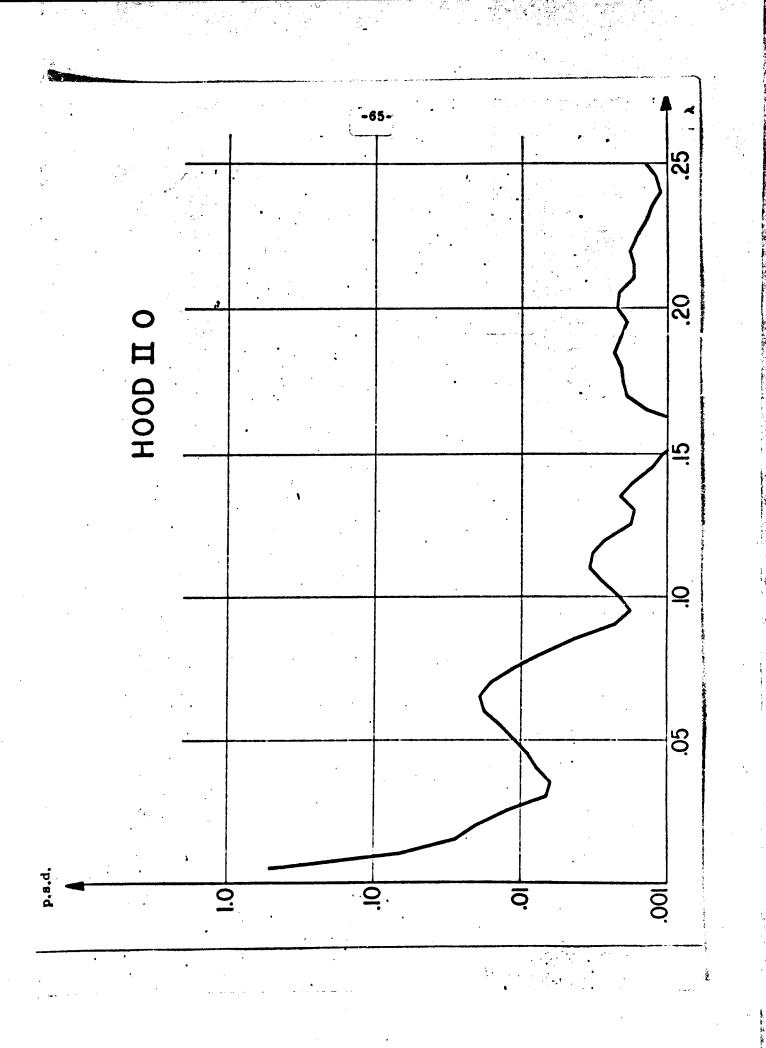


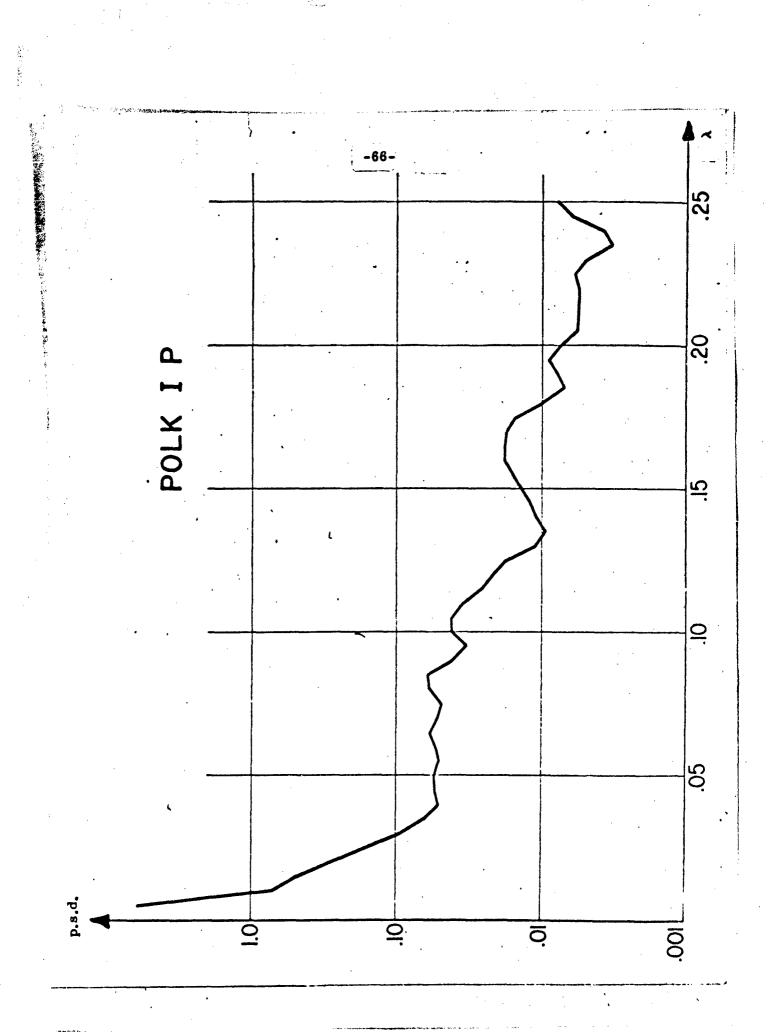


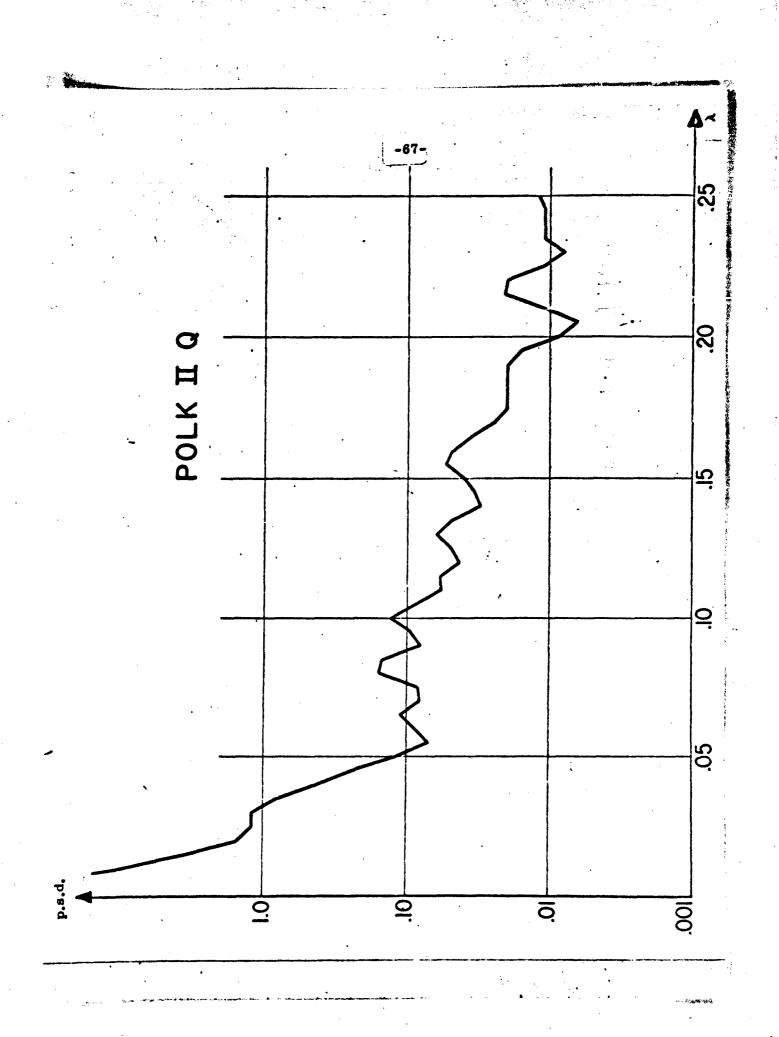


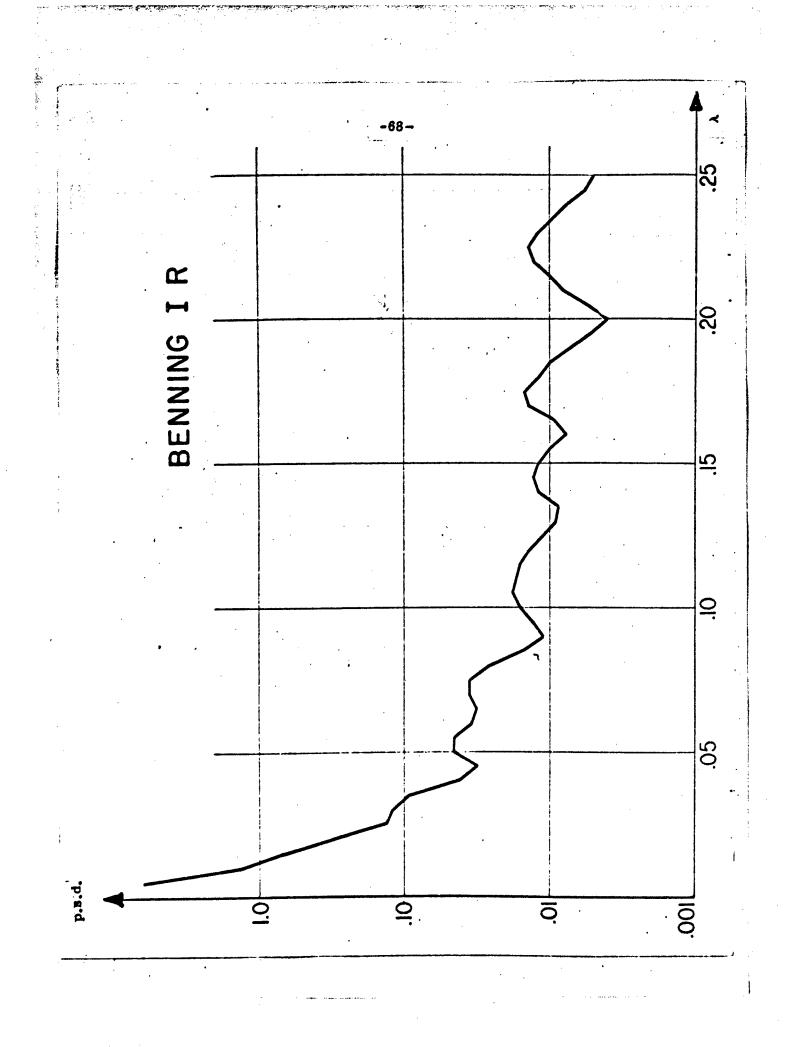


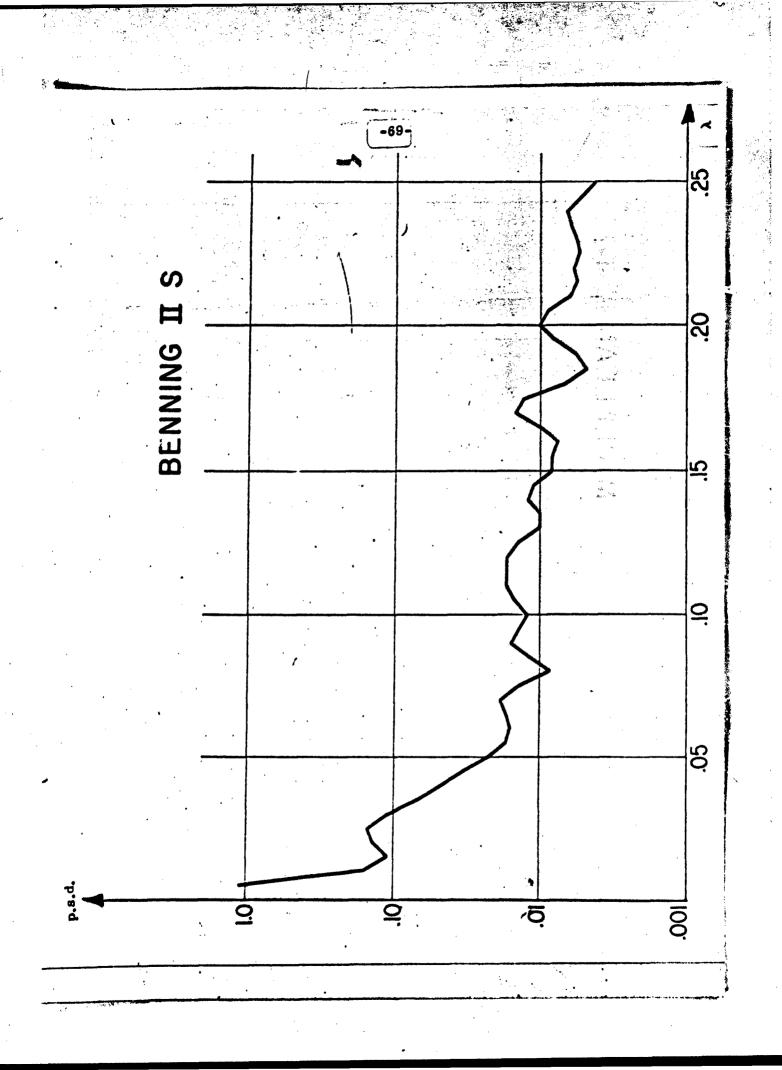


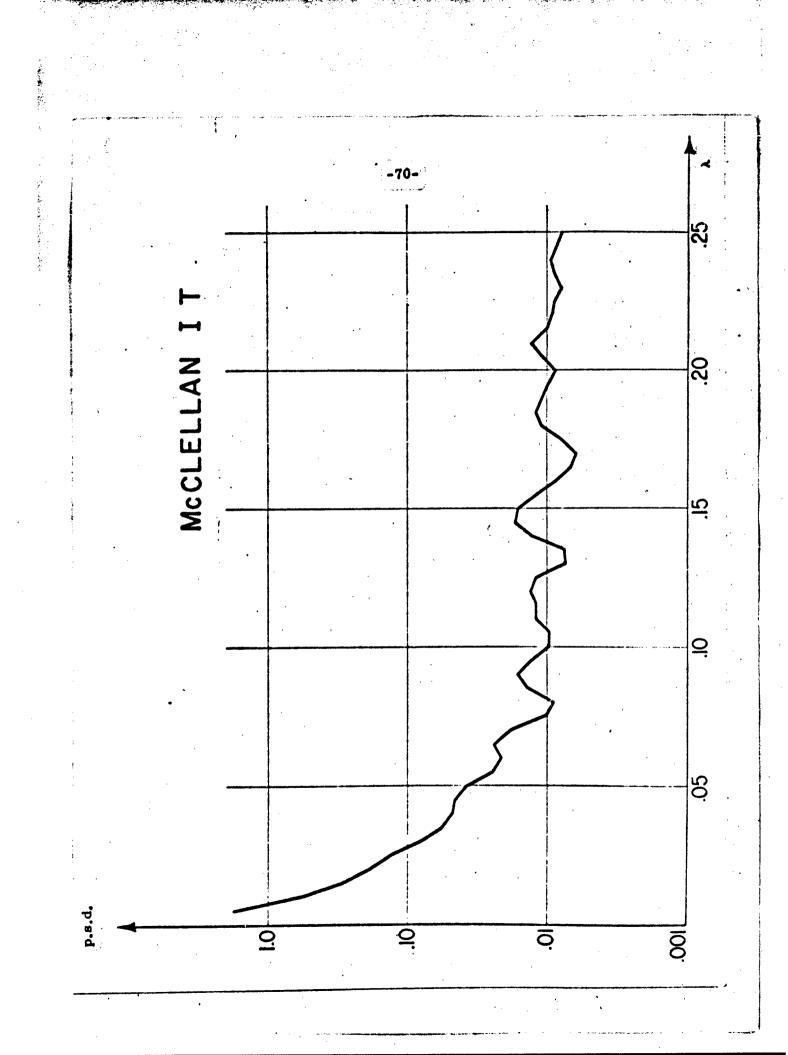


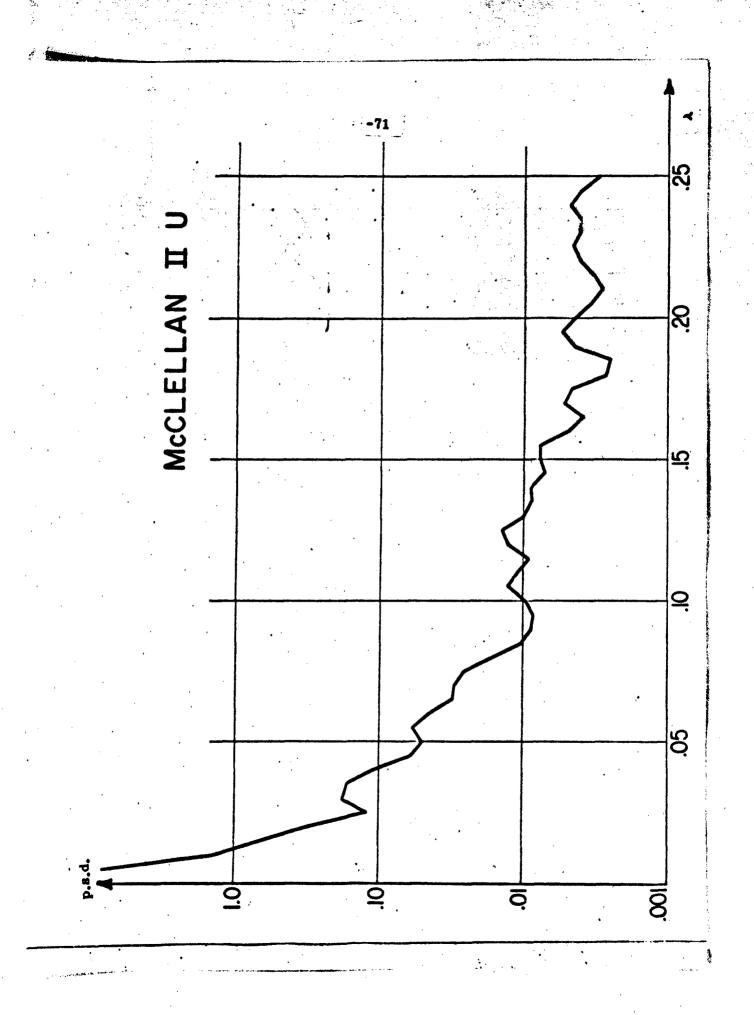


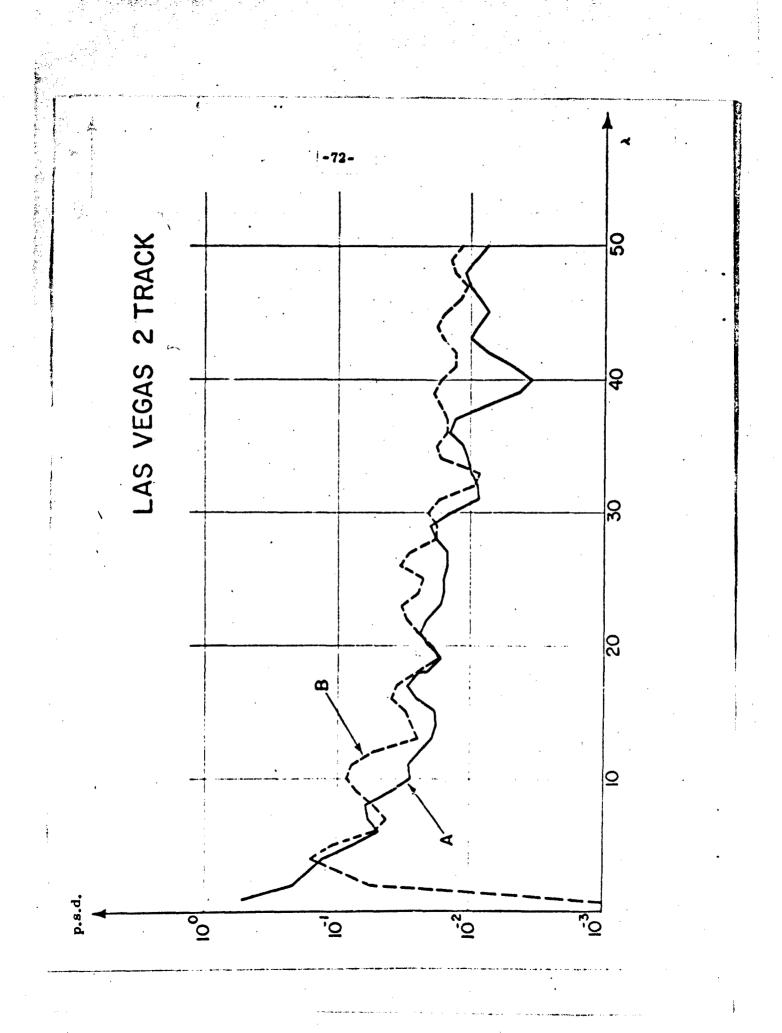












AREA SPECTRA

Again our methods of obtaining p.s.d. estimates of area data are described in [1]. The computer program used will be described in the section on computations.

In this section, we present the spectral estimates in numerical form and contour graphs. The raw data are too voluminous to present in this report; persons wishing to use this data may obtain it at cost in the more convenient form of IBM cards or magnetic tapes from MASC.

Because of symmetry, only half of the spectral estimates are presented in tabular form. Somewhat more complete contour graphs are given. The contour heights are in powers of 5 corresponding to the semi-logarithmic plots of the line spectra. On each contour diagram is an arrow indicating the direction North.

The statistical accuracy of the spectral estimates may be presented as on p 72 of [1]. Each estimate has 32 degrees of freedom. A 95% confidence interval may be given by the factors .648, 1.740. [We are 95% confident that a true spectral value is between .648 times the estimate and 1.740 times its estimate.]

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		CORRECTEDSI	PECTRUM.	LE-STAR)			
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	-17	0.009	0.009	0.007	0.007	. 5.009	
	-16	C.013	0.313	0.C10	C.009	C.C10	
	-15	C.013	0.017	0.016	C.011	6.010	
-	14	C.013	0.019	0.016	G.012	C.C14	
	-13	C.014	0.018	0.014	0.013	0.017	
	12		_0.016	0.017	0.017	0.C18_	
	-11	0.016	0.018	0.021	0.021	0.CZ1	
****	-10	0.018	0.020	0.021	0.022	C.C22	
	-9	0.020	C.023	0.025	0.G24	J. 023	
	-8	0.021	0.029	0.031	0.029	0.028	
	7	0.025	_0.034	0.039	0.C43	0.039	
	-6	0.033	0.047	0.059	0.058	0.043	
	5	0.049	0.071	0.080	0.060	0.041	
	-4	0.091	0.141	0.141	0.074	0.047	
	3		0.396		0. 094	C.056 .	
	-2	0.648	0.900	9.322	0.118	0.080	
	1	4.113	1.587	0.537	0.293	G.139	
	0		4.451	1.522	0.700	G.355 .	
	1	4.113	1.467	0.960	0.597	0.403	
	2	C.648	0.337	0.219	0.179	G.144	
	3	0.187	0.136	0.100	0.086	G.C66	
	4	0.091	0.075	9•053	0.C46	0.041 _	
	5	C.049	0.040	0.037	0.032	0.031	
	6	0.033		0.029	0.028	0.027	
	7	0.025	0.022	0.022	0.019	C.023	
	8	0.021	0.028		0. C22	0.021	
	9 	0.020	0.029	0.028	0.021	0.016	
	10	0.018	0.017	0.016	0.014	0.013	
		0.016	0.014				
	12	C.015	0.017	0.016	0.013	0.013	
		0.014					
	14	G.013	0.012	0.012	0.009	0.011	
-			_ 0.014				<u>*</u>
	16	C.013	0.015	0.013	0.011	C.G17	
				0.009			
•	18	0.008	0.008	0.007	0.009	0.013	
	A Y	0.009	0.005	0006	0.008	C.C13	
	20	C.010	0.007	0.005	0.007	0.011	

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		CORRECTED	SPECTRUM.	LE-STAR)		Difference of the control of the c	
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	-20	0.008	0.008	0.007	0.007	0.007	*
•	-19	0.008	0.009	0.008	0.007	0.006	
	-18	G.011	0.012	0.010	0.009	0.007	
	-17	0.013	0.012	0.009	0.009	0.009	
	-16	0.009	0 • 0 0 9	0.008	0.009	0.010	
	-15	0.008	0.008	0.008	0.008	0.009	
	-14	0.009	0.010	0.008	0.606	0.008	
	-13	0.011	0.014	0.013	0.009	0.003	
	-12	0.012	0.014	0.015	0.012	0.009	
•	-11	0.010	0.011	0.013	0.011	0.008	
•	-10	0.008	0.010	0.012	0.011	0.010	
	9	0.009	C.011	0.G11	0.012	C.011	
	-8	0.010	0.011	0.012	0.011	0.009	
	7	0.012	0.012	0.012	0.010	0.007	
	-6	0.017	0.014	0.012	0.011	3.039	
	5	0.018	0.016	0.013	0.012	0.014	
	-4	0.020	0.017	0.014	0.014	0.016	
	. –3	0.030	0.022	0.014	0.016	0-C18	
	-2	0.027	0.022	0.016	0.020	0.021	
	<u>-1</u>	0.025	0.025	0.025	0.026	0.024	
	. 0	0.037	0.035	0.033	C.C28	C.023	
	1	C.061	0.053	0.039	0.032	0.024	
	2	0.072	0.064	0.045,	0.038	C•033	
	3	0.042	0.032	0.025	C.028	9.028	
	4	0.032	0.529	0.013	0.015	0.016	
	5	0.029	0.023	0.015	0.015	C-C13	
	6	0.023	0.019	0.017	0.016	Q. Cl 1	
	7	5.021	0.016	0.014	0.014	0.009	
	B	C.022	0.018	0.C11	0.009	0.009	
	9	0.014	6.014	0.012	0.010	0.010	•
	10	0.012	0.011	0.011	0.012	C.C11	
	11	0.611	800.0		0.009	G. 011 .	
	12	0.010	0.010	0.009	0.009	C.012	
		0.009	0.011			G. G11	
	14	0.009	0.009	0.009	0.009	C.CO9	
	.15	0.012	0.011	0.008	0.007	0.007	
	16	0.015	0.012	0.009	0.007	0.006	
	17	0.011	0.010	0.007		C • 006	'
	18	0.009	0.008	0.006	0.008	0.008	
	19	C.01C	0.007		0.009	C.008	
	20	C.Q11	0.007	0 007	0.008		

na managana ara da	RILEY 1	GRID A
. •	CORRECTED S	SPECTRUM, (F-STAR)
		, CO 110-112
	20	
-20	C.009	
-19	0.609	D. A. C.
-18	0.006	
-17	C.008	/ !
16	0.009	
-15	G.006	
14		
-13	800.D	•
12	0.008	
-11	G-008	
-10	C.009	and the companies of the state
-10	C•009	
-8	6.009	· · · · · · · · · · · · · · · · · · ·
-7	0.009	·
-6	C.013	
	C.014	
-4	0.013	
3	0.014	
-2	0.018	•
	0.035	
. 0	0.048	
1	C.030	• • • • • • • • • • • • • • • • • • •
2	C.018	
. 3	0.022	
4	0.022	
5	C.015	
	C.009	
7	C.009 0.009	
9	G.008	๛๛๚๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛
•		
10	C.007	AND THE REPORT OF THE PROPERTY
11		
12	0.006	
13	800•0	*
14	0.009	
	600.0	THE RESIDENCE OF THE CONTROL OF THE
16	C.CO5	
17	0.007	
18 19	0.008	
17	0.00?	AND THE PERSON AND A SECURITION OF THE AND A SECURITION OF THE SEC
20	C.007	
		i na manda de control de de composito de la composito de control d
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the second section of the second section (section)	CORRECTED.	SPECTRUM.	(F-STAR)		, , , , , , , , , , , , , , , , , , ,
	0	11		3	- 3. ¹
-20	0.025	0.026	0.022	0.020	0.027
-19	0.027	0.027	0.023	0.023	0.031
	0.034	0.028	0.021	0.024	0.031
-17	0.052	0.046	0.025	0.020	0.029
16	0.063	0.063	0.032	0.016_	0.029
-15	0.053	. 0.058	0.038	0.025	0.032
	0.035	0.038	0.038	0.033_	0.026
-13	0.023	0.023	0.028	0.026	0.018
-12	0.027	0.025	0.030	0.025_	0.019
-11 .	0.028	0.026	0.032	0.032	0.028
-10	0.026	0.023	0.029	0.034	0.028
	0.029	0.028	0.037	0.036_	0.022
-8	0.035	0.039	0-040	0.031	0.021
	0.041	0.050	0.047	0.034	0.031
-6	0.051	0.065	0.061	0.034	0.029
<u>-5</u>	0.095	0.105	0.071	0.034	0.030
-4 . -3	0.167	0.192 0.333	0.100	0.058	0-050
-2	0.327 0.947	0.695	0.216 0.404	0.191 0.395	0.114 0.255
-1	7.432	3.037	1.402	1.005	0.802
0	<u> </u>	8.790	3-096	1.423	0.949
1	7.432	2.734	1.244	0.594	0.336
2	0-947	0.730	0.383	0.266	0.144
3.	0.327	0.275	0.229	0-164	0.129
·····	0-167	0.108	0.098	0.076	0.083
5 6	0.095 0.051	0.063 0.048	0•060 0•057	0.051 0.047	0.053
7	0.041	0.049	0.051	0.033	0.046 0.029
	0.035	0.041	0.043	0.032	0.028
9	0.029	0.030	0.028	0.034	0.041
10 .	0-026	0.030	0.030	0.034	0_044
11	0.028	0.030	0.046	0.033	0.077
12	0.027	0.048	0.052	0.030	0.017
	0.023	0.045	0-054		0.019
14	0.035	0.050	0.055	0.034	0.025
15		0.057	0.051		0.022
16	0.063	0.057	0.046	0.031	0.028
17	0.052	0.042	0.039	0.044	
18 19	0.034	0.033	0.037 0.029	0.049	0-044
	VAVAI		y.027	0•032	0.038
20	0.025	0.025	0.021	0.024	0.037
					-
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					and the second s	
	RILEY 2	GRID B		-8()- 	
•	CORRECTED S	PECTRUM, (F-STAR)		,)	
	5	6	7	8	9	
-20	0.025	0.017	0.014	0.020	0.027	
-19	0.025	0.015	0.014	0.020	0.027	
-18	0.026	0.016	0.014	0.018	0.025	
17_	0.028	0.026	0.024	0.020	0.023	
-16	0.036	0.035	0.035	0.022	0.020	
-15	0.036	0.034	0.036	0.027	0.023	
-14	0.025	0.029	0.030	0.027	0.027	
-13	0.024	0.038	0.036	0.035	0•034	
-12	0.027	0.047	0.041	0.030	0-030	
11_	0-026	0.036	0.035	0.030	0.029	
				•	,	
-10	0.022	0.023	0.031	0.032	0.029	
-9	0.018	0.024	0.036	0.035	0.026	
	0-024	0.034	0.035	0.026	0.022	
-7	0.032	0.032	0.025	0.024	0.031	
6_	0.027	0.031	0.029	0.027	0.028	
-5	0.034	0.042	0.040	0.037	0,035	
	0.042	0.041	0.043	0.045	0,060	
-3	0.057	0.048	0.056	0.051	0.059	
	0.160	0.116	0.123	0.082	0.058	
-1	0.445	0.268	0.226	0.151	0.124	
•						
0	0.456	0.287	0.228	0.174	0.176	
1	0.202	0.200	0.205	0 • 174	0.152	
2	0.113	0.141 .	0.162	0.158	0-140	
3 .	Q.210	0.238	0.203	0.189	0.159	
4	0.234	0.418	0.486	0.397	0-222	
5_	0.131	0.367	0-670	0.727	0.407	
6	0.084	0.189	0.363	0.509	0.363	
7 .	0. 060	0.086	0.124	0.190	0. 167	
8	0.043	0.050	0.078	0.136	0.117	
9	0.045	0.049	0.046	0.063	0.074	
10_	0.040	0.041	0.034	0.028	0.037	
11	0.024	0.034	0.041	0.035	0.023	
12	0.013	0.021	0.044	0.058	0.036	
13	0.015	0.018	0.031	0.041	0.028	
14	0.025	0.023	0.018	0.022	0.021	
15	0.025	0.026	0.022	0.021	0.023	
16_	0.025	0.028	0.038	0.034	0.023	
17	0.027	0.029	0.041	0.034	0.023	
18	0.025	0.024	0.030	0.029	0.027	
19	0.027	0.023	0.028	0.026	0.020	
• /						
20	0.029	0.024	0.029	0.028	0.020	
20	V- V- V					

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		CORRECTED	SPECTRUM.	(F-STAR)	······································	American Contraction
•		10	11	12	13	14
			:			- ye
l	-20	0.028	0.027	0.028	0.030	0.026
	-10	0.030	0.031	0.029	0-029	0.026
	18	0.029	0.031	0.027	0.024	0.025
	-17	0.027	0.030	0.028	0.021	0.022
	16	0.027	0.029	0.031	0.021	0.015
	-15 -14	0.027	0.024	0.029	0.028 0.030	0.020
~~~~~~	-13	0•029 0•032	0•026 • 0•032	0.026 0.032	0.038	0-027 0-040
•	-12	0.032	0.037	0.044	0.046	0.050
	-11	0.028	0.036	0.039	0.038	0.042
., .		00020		00007		70012
	-10	0.027	0.028	0.032	0.047	0.065
	9	0.025	0.023	0.032	0-053	0.069
	-8	0.026	0.025	0.026	0.033	0.036
	7	0.037	0.030	0.023	0.025	0.031
	-6	0.036	0.030	0-029	0.035	0.037
	5	0.039	0.033	0.034	0.039	0.041
	-4	0.055	0.034	0.033	0.035	0.034
	3	0.049	0.032	0.032	0.032	0.032
	-2 -1	0.051 0.097	· 0•046 0•06Q	0.046 0.042	0.041 0.052	0 • 044 0 • 069
		VA US I	Vellou	V• V7&		
	0	0.128	0.074	0.042	0.047	0,056
	1	0.105	0.064	0.038	0.035	0.039
	2	0.101	0.061	0.037	0.039	0.050
	3	0.139	0-100 .	0.056	0.046	0.060
	4	0.173	0_156	0•098	0.057	0.054
	5	0.198	0.139	0.095	0.059	0.051
		0-198	0.119	0.073	0.053	0.065
	7.	0.140 0.101	0.128 0.128	0.102 0.135	0.072 0.114	0.067 0.094
	<i>9</i>	0.072	0.092	0.119	0.158	0.180
	•	0.012	04072	04119	0.170	V4 100
	10	0.049	0.061	0.087	0-144	0.205
	_ii	0.030	0.049	0.073	0.095	0.161
	12	0-024	0.037	0.062	0.073	0-114
		0.019	0.041	0.079		0.083
•	14	0.022	0.037	0.066	0.077	0.088
	15					0.067
•	16	0.021	0.022	0.025	0.032	0.044
	_17	0_026	0.025	0.024		0.030
<b>-</b> •	18 19	0.031 0.029	0-032 0-038	0.033 0.036	0•026 0•02 <b>4</b>	0.024 0.022
		MA VA J				
	_20	0-028	0.035	0.030	0-026	0.026
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A St.	RILEY	2 GRID B	e e e e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·	-82-	nan en
	CORRECTED	SPECTRUM.	(F-STAR)	. I san meren er er en		
	15 .	16	17	18	19	and the second or construction and the second of the secon
-20	0.025	0.032	0.032	0.042	0.067	المالي والمال المستدانية
	0.024	0.027	0.030	0.046	0.066	
-18	0.026	0-025	0.029	0.044	0.054	
-17.	0.027	0.025	0.028	0.037	0.042	
-16	0.019	0.023	0.027	0.044	0.050	
<u>-15.</u>	0.024	0.029	0.031	0•056	0.066	
-14	0.030	0.035	0.034	0.050	0.057	
-13.	0.,034	0.030	0.031	0.041	0. 038	· · · · · · · · · · · · · · · · · · ·
-12	0.040	0.032	0.033	0.033	0.024	
-11	0,043	0-044_	8 0.0	0•029	0.025	anny reproductive against the contract of the
-10	0.075	0.066	0.042	0.029	0.029	
-9	0.073	0.062	0.048	0.034	0.031	
	D.034	0.034	0.041	0.034	0.029	
-7	0.032	0.031	0.036	0.034	0.027	
	0.043	0.042	0.041	0.040	0.027	
-5	0.049	0.053	0.048	0.042	0.033	-
-4	0.044	0.053	0.051	C • 047	0.040	
-3	0.041	0.045	0.051	0.053	0.041	*****
-2	0.039	0.035	0.046	0.047	0.031	,
-1	0.051	0.043	0.055	0.044	0.029	A area a si a manana a a manana a manan
0	0.043	0.046	0.072	0.074	0.043	to the second se
1	0.043	0.047	0.072	0•074 0•074	0.047 0.048	
2	0.053	0.072	0.072	0.047		
2	0. 069	D.083	0.079	0 • 053	0.029	
	0.057	0.070	0.072	0.056	0.040 0.053	
5	0.076	D.091	0.081	0.061	0.049	
6	0.112	0.112	0.092	0.072	0.058	
7	0.085	0.087	0.094	0.107	0-122	Α.
8	0.086	0.096	0.102	0.113	0.130	mer v m e
	0.141	0.111	0.090	0.068	0.057	
		•				
10_	0.166	0.106	0.083	0.069	0.042	
11	0.154	0.117	0.100	0.076	0.043	
		0.113	0.101	0.058	0.034	
13	0.114	0.124	0.099	0.049	0.034	•
14 .	0.122	0.122	0.082	0 • 046	0.033	***
15	0.069	0.066	0.055	0.054	0.040	
16_		0.031	0.033	0.044	0.047	
17	0.031	0.026	0.023	0.032	0.044	•
			0.022		0.035	•
19	0.032	0.038	0.033	0.044	0.052	
20	0.036	0.038	0.039	0.063	0.072	

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RILEY 2.	GRID B		a and an	- 4
CORRECTED SPE	CTRUM, (F-	STAR)) 	
			•	4¥"
20			-	
-200.084	71 - 21 - 22 - 23 - 24 - 24 - 24 - 24 - 24 - 24			
-19 0.069	2			
-17 0.037) - () - () - () - () - () - () - () - () -	هند الله عن الله الله الله الله الله الله الله الل		
				egya ebensalyar Helin.
-15 0.053	•			
7-14 0.048			radical and specific application of the same of	
-13 0.031 -12 0.022			NI .	
-11 0.028				
1				
-10 0.634 -90.040		and the second of the second		
-8 0.037				
70.032		~ w 4 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		
6 0.026			***	
-5 0.031 -4 0.036			· · · · · · · · · · · · · · · · · · ·	
-3 0.034				
-2 0.025				
H0-028	********	, 		
, ,,00.039		•		
1 0.039				
2 0.026				•••
3 0.037				
7			********	
5 0.040 6 0.052		•		1
7 0.119	• ,			
80.131				
9 0.056			•	
10 0.025			ne agreem agreem agreem van de	
110.025			The second secon	
12 0.032		•		
130.040				1980 1986 1998 1
15 0.032				
16 0.044	,	•		
17 0.043				
18 0.035 19 0.047				
Barran Tananan Alamanan MA Set Indonesia	**************************************			
20 0.057				
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	CORRECTED.	SPECTRUM.	(F-STAR)	Markan Markan III III	. •	
allight requires a in	o	1	2	3		* **·
	0.021	0.018	0.012	0.009	0.007	
-19	0.020	0.020	0.016	0.014	0.010	
	0.021		0.016			
-17	0.017	0.013	0.011	0.013	0.015	•
16 .	0.016	0.011	0.010	0.013_	0.015	and the same of th
-15	0.020	0.018	0.017	0.022	0.023	
-14 -13	0.023	0.022 0.024	0.016 0.017	0.016	0.020 0.020	
-12	0.028	0.024	0.022	0.017	0.016	
-11	0.028	0.032	0.029	0.024	0.019	
-11	0.020	0.032	U4U27	V•024	0.019	_
-10	0.033	0.035	0.028	0.022	0.019	
9	0.038	0.034	0.023	0.025	0.024	
-8	0.038	0.035	0.025	0.028	0.027	
7 .	0.042	0.034	0.025	0.028	9.026	
-6	0.045	0.032	0.021	0.011	0.015	
	0.049	0.033	0.029	0.024	0.023	
-4	0.073	0.040	0.041	0.016	0.034	
3	0.305	0.183	0.089	0.077	0.068	
-2	1.683	1.112	0.291	0.108	0.080	
1	10.715	6.666	2. 156	0.687	0.441	
0_		38.842	9.335	3.275	1.526	
	10.715	10.522	10.673	10.751	8.121	
2	1.683	1.646	2.978	7.816	11.308	
3	0.305	0.327	0.254	1.050	3.438	
	0.073	0.075	0.065	-0.004	0.102	
5	0.049	0.054	0-047	0.018	0.013	••••
6	0.045	0.048	0.037	0.033	0.025	_
7	0.042	0.037	0.029	0.024	0.018	
8	0.038	0.028	0•025	0.026	0.022	
9	0.038	0.030	0.025	0.021	0.024	
10	0.033	0.028	0.026	0.029	0.029	• "
11	0.033	0.024	0.028	0.025	0.029	
12	0.028	0.021	0.018	0.022	0.024	
13	0.026	0.016	0.014		0.016	
14	0.023	0.015	0.012	0.014	0.015	
15	0.020	0.015	0.009			
16	0.016	0.017	0.012	0.010	0.013	•
17_	0.017	0.017	0.013	0.011	0.010	•
18	0.021	0.021	0.019	0.019	0.015	
					0.014	
19						
19	0.021			.	0.019	

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	GRUBER	1 GRID C	्राप्त का का का व्यवस्था 	ne se se se ague semble des idades des	-85-
· 100 (100 (100 (100 (100 (100 (100 (100	CORRECTED	SPECTRUM,	(F-STAR)		Acceptable Control of the Control of
	5	6	, 7	. 8	9
-20	0.017	0.026	0.019	0.010	0.009
	0.003	0.006	0.015	0.017	0.013
-18 	0.016 0.008	0.019	0.017 0.014	0-019	0.019
-16	0.022	0.005 0.025	0.019	0-018	0-028 0-026
	0.020	0.018	0.024	0-029	0.028
-14		0.028	0.027	0.031	0.022
	0.019	0.013	0.021	0.029	0.019
-12	0.024	0.027	0-021	0.017	0.018
	0_015	0.012	0.014	0-019	0.024
-10	0.027	0.031	0.017	0.011	0.015
-9	0.015	0.014	0.017	0.014	0.011
	0.028	0.030	0.023	0.013	0.011
-7	0.014	0.011	0.025	0-027	0.021
	0.034	0.036	0.027	0.023	0.023
. -5	0.009	.0.005	0.018	0-025	0.020
	0.069	0-055	0-025	0.019	0.017
3	0.039	0.022	0.034	0.035	0.029
-1	0.115 0.279	0.094 0.167	0.055 0.142	0-032 0-125	0-030
	00217	0.101	0.172	04123	0.093
. 0	0.763	0.395	0.294	0.251	0.172
	4-081	1.440	0.455	0.237	0-142
. 2	10.488	6.720	2-925	0.846	0.207
	6.423	7.378	5-177	2.086	0.585
7	0.756 0.032	1.919 0.092	2.303 0.210	1.539 0.335	0.685
6	0.017	0.024	0.037	0.052	0.268 0.060
	0.038	0.053	0.039	0.028	0.028
. 8	0.014	0.017	0.028	0.028	0.026
	0. 038	0+044	0.028	0.020	0.023
	0.022	0-021	0.032	0.038	0.027
11 12	0.031 0.018	0.032 0.012	0.027 0.020	0.028 0.027	0.021
13	0.026	0.028	0.021	0-016	0.020
14	0.008	0.007	0.021	0.023	0.019
15	0.018	0.022	0.018	0.015	0.017
16	0.006	0.001	800.0	0-014	0.016
17	0.015	0.017	0.012	0.010	0.010
18	0.005	0_003	0.013	0-018	0-014
19	0.018	0-020	0-014	0-011	0.012
20	0.008	0.005	0.011	0.014	0.012
	77.74				
		****			E ME MAN THE CONT. THE THE THE ME MAN THE CONT. THE THE CONT.
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	CORRECTED	SPECTRUM.	(F-STAR)	· ·	-86-	
	•	-				
	10	11	12	13	14	or a row comment of load loads.
20	0. 009	0.010	0.013	0.015	0.016	
-19	0.009	0.010	0.014	0.018	0-017	
18	0+019	0.015	0.013	0.018	0.020	*****
-17	0.027	0.020	0.015	0.016	0.017	
16	0.025	0.025	0.021	0.021	0.016	
-15	0.025	0.029	0.021	0.022	0.019	
14 -13	0.019	0.018	0.017	0.019	0.018	
-13 12	0.016 0.020	0.019 0.020	0.021 0.024	0.020 0.027	0.020 0.027	
-11	0.022	0.016	0.018	0.020	0.022	
-10	0.015	0.014	0.012	0.010	0.017	
9	0.012	0.015	0.013	0.011	0.015	
-8	0.012	0.015	0.016	0.019	0.016	
7	0.013	0.015	0.018		0.017	
-6	0.018	0.019	0.022	0.024	0.020	
-5	0.019	0.021	0.027	0.030	0.023	
-3	. 0.020 0.025	0.027 0.033	0.036 0.040	0.033 0.032	0.029 0.026	
-2	0.028	0.035	0.038	0.030	0.024	
- 1	0.070	0.076	0.072	0.055	0.045	
	•					
0	0.130	0-149	0.136	0.092	0.072	
1	0.101	0-112	0.105	0.067	0.053	
2	0.092	0.065	0.054	0.035	0\$036	
3	0.169	0.071	0.051	0.035	0.034	
<i>† .</i> 5	0 <u>.</u> 227 0. 156	0.128 0.144	0.091 0.147	0.054 0.120	0.033	+
, ,	0.060	0.077	0.124	0.141	0.124	
7	0.024	0.035	0.054	0.070	0.086	
ė	0.019	0.023	0.030	0.030	0.033	
9	0.017	0.016	0.020	0.022	0.023	
10	0.012	0.011		0.020	0.017	
11	0.011		0.014			
12 13	0.014 0.015	0.017	0.017	0.014	0.013 0.015	
13 14	0.016	0.019	0.016	0.014	0.015	
15	0.018		0.015			
16	0.016	0.017	0.014	0.014	0.017	
17	0.010	0.012	0.014			
18	0.009	0.009	0.013	0.015	0.012	
19			0.009			
ZQ	0.010	0.008	800.	0.008	0.011	
					THE CO. LET WANTED BY LINE AN ADDRESS THE STATE OF THE CO.	

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		GRUBER	1 GRID C		-0	17-
* * * * * * * * * * * * * * * * * * * *		CORRECTED	SPECTRUM.	(F-STAR)	e un pag dag de red und au derverk un	en e
		15	. 16	. 17	18	19
	-20	0.013	0.013	0.012	0.013	0.015
	19	0.013	0.014	0.012	0-012	0.014
*	-18	0.017	0.015	0.013	0.012	0.012
		0.017	0.014	0.013	0.013	0.012
	-16	0.017	0.016	0.014	0.015	0-014
		0.020	0.018	0.017	0.019	0.016
	-14	0.018	0.017	0.019	0.018	0.016
	13	0.019	0.017	0.019	0.019	0.016
	-12 -11	0-020	0.015 0.015	0.019 0.024	0.024 0.033	0.022 0.033
		0.016	Uaili		9•033	0000
		0.020	0.022	0.031	0.035	0.035
	-9	0.021	0.023	0.024	0.022	0.024
	-8-	0.015	0.029	0.020	0.015	0.016
	-7	0.018	0.021	0.020	0.015	0.014
	6		0.017	0.018	0.019	0.014
	-5	0.016	0.014	0.013	0.017	0.017
	4	0.024	0.020	0.015	0.018	0.023
	-3	0.031	0.035	0.032	0.025	0.025
	2	0.032	0.042	0.036	0.025	0.031
	-1	0.048	0.055	0.049	0.046	0.053
	0	U- 075	0.079	0.073	0-075	0.071
	11	055	0.050	0.042	0.042	0-041
	2	0.038	0.032	0.030	0.029	0.024
	3	0.038	0.033	0.034	0.033	0.031
	4	0.031	0.029	0.027	0-024	0.031
	5	0.044	0.033	0.029	0.024	0.026
	6 7	0.072 0.067	0.044	0.040 0.061	0.034 0.061	0.043
	8	0.042	0.042	0.063	0.089	0.067
	9	0.028	0.027	0.037		0.056
	10	0.016	0.017	0.018	0.022	0.027
	11	0-015	0.016	0-016	0-016	0.016
	12	0.015	0.016	0.014	0.016	0.016
	13	0-014	0.014	0.013	0.014	0.013
	14	0.016				0.012
	15	0.020	0.018	0.012	0.008	0.012
	16	0.024	0.024	0.013	0.009	0.014
•	17	0.019	0.017	0-012	0-013	0.016
	18 19	0-011 0-011	0.012	0.015	0-015	0.015
	17	0.011	0.012			
	20	0.012	0.014	0.017	0.016	0.013
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make an electric section of the control of the cont	GRUBER 1	GRID C	re ann e na mag Romannianna (e annaeanna	-88-		and the second s
₽: • }	CORRECTED SPE	CTRUM, (F-S	STAR)		• 	
	20				<u> </u>	. '
	0.014		ć	. ,		and the second s
-20 -19	0.014 0.015					* * * * * * * * * * * * * * * * * * * *
-18	0.014					
-17	0.012				•	
-16 -15	0.012 0.014			f		
-15 -14	D.015	,				•
-13	0.016					
-12	9-020					
-11	0.030	•				•
-10 -9	0.036 0.028			1		Parada da malana da sa sa sa sa sa sa sa sa
-8	0.019					and the side of the control of the side of
-7	0.016					
-6	0.013			· ·		
-5_	0.019					
-4 -3	0.029 0.030					, .
-2	0.033					
-1	0-062			**		
	,					
,0	0.082 0.048					
1 2	0.025	•		•		
3	0.030	. ,			*****	
·	0.030					~ -
5	0.025	•	• 1			
;67	0.021 0.034	 	· · · · · · · · · · · · · · · · · · ·			***************************************
8	04049		·			
9	0.049				** *** *** *** *** *** *** *** *** ***	
10	0.030	·				*******
<u> </u>	0.018					
. 12	0.016					
?13	0.012					
14	0.015 0.015					
16	0.017	**********				
:17	0.017					•
18	0.016					
;19	0.014					· .
20	0.013					
					Broad rold and date only the Might plan and 1 / and 1 / and 1 / and	•
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" Salas Canada Carine

	GRUBER	2 GRID D	. ~	•	90 -	
	CORRECTED	SPECTRUM,	(F-STAR)	a manage a la la		. An in the
distribution of the second second	5	6	7	8	9	
-20	0.009	0.010	0.010	0.008	0.006	
19	0.011	0.012	0.013	0.011	0.008	
-18	0.009	0.011	0.011	0.010	0.007	
17	800.0	0.009	0.010	0.009	0.008	
-16	0.005	0.006	0.010	0.010	0.008	
15	0.009	0.010	0.012	0.013	0.012	
-14	0.009	0.008	0.009	0.010	0.00 9	
13	0.009	0.009	0.011	0.011	0.011	
-12	0.007	0.008	0.012	0.012	0.011	
11	0.011	0.014	0.014	0.012	0.012	
-10	0.015	0.017	0.018	0.016	0.014	
-9	0.022	0-023	0.024	0.022	0.017	
8	0.020	0.022	0.022	0.023	0.021	
-7	0.030	0.028	0.029	0.034	0.041	
6	0.046	0.036	0.032	0.040	0.053	
-5	0.069	0.069	0.054	0.045	0.057	
4	0.076	0.093	0.075	0.054	0.059	
-3 '	0.103	0.107	0.093	0-079	0.083	
	0.287	0.256	0.217	0.174	0.164	
-1	1.100	0.757	0.492	0.349	0-334	i
0	1.182	0.703 .	0.392	0.274	0.263	
1	0-324	0.209	0.131	0.106	0.107	
2	0.134	0.106	0.075	0.067	0.075	
3:	0.099	0.084	0.064	0.051	0.047	
4	0.061	0.058	0.051	0.035	0.023	
5	0.029	0.035	0.038	0.027	0.017	
6	0.027	0.033	0.034	0.023	0.018	•
	0.021	0.024	0.022	0.018	0.023	
8	0.017	0.023	0.025	0.028	0.035	
9	0.013	0.018	0.025	0.028	0.025	
10	0.015_	0.013	0.018	0.020	0.019	
11	0.014	0.011	0.013	0.016	0.013	
12	0.017	0.013	0.014	0.012	0.009	
13	0.014	0.009	0.010	0.009	0.007	
14	0.011	800.00	0.011	0.011	0•009	
15	0.007	0.009	0.012	0.012	0.009	
16	0.009	0.010	0.011	0.011	0.008	
17	0.006	0.006	0.008	0.011	0.008	
18	0.009	0.007	0.010	0.013	0.009	
19	0.008	0.008	0.011	0.012	0.007	
20	0-011	0.011	0.014	0.012	0.008	

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	GKUBER	2 #GRID D		· -	92-	
	CORRECTEC	SPECTRUM.	(F-STAR)	e mark visa visa	•	• •
allering armine was to the surprise delivering and the sur	15	16	17	18	19	
-20	0.005	0.007	0.008	0.006	0.007	
19	0.004	0.006	0.009	0.007	0.006	
-18	0.004	0.004	0.007	0.008	0-006	
17	0.006	0.006	0.007	800•0	0.009	
-16	0.009	0.007	0.008	0.011	0.011	
	0.013	0.007	0.008	0.010	0,008	
-14	0.009	0.007	0.007	0.008	0.007	
	0.007	0.008	0.009	0.009	0.009	
-12	0.008	0.007	0.007	0.010	0.012	
_=11	0.008	0.008	0.008	0.010	0.013	
	0.009	0.010	0.012	0.013	0.013	
-9	0.013	0.013	0.013	0.012	0.012	
8	0.010	0.010	0.009	0.011	0.012	
-7	0.012	0.014	0.014	0.015	0.015	
6	0.022	0.029	0.027	0.019	0.014	
-5	0.032	0.034	0.026	0.015	0.013	•
-4	0.034	0.028	0.022	0.013	0.013	
- 3	0-045	0.032	0.028	0.019	0-013	
=2	0.058	0.042	0•038	0.025	0.015	
-1	0.099	0.068	0.048	0.035	0.031	
0	0.093	0.060	0-043	0.043	0.046	
1	0.037	0.027	0.037	0.036	0.031	
2	0.030	0.026	0.031	0.024	0.018	
3	0.043	0.032	0.022	0.018	0.014	
4	0.026	0.024	0.017	0.014	0.012	
5	0.010	0.010	0.011	0.012	0.013	
6	0.007	0.008	0.009	0.010	0.011	
7	0.007	0.008	0.010	0.010	0.011	
8	0.009	0.011	0.012	0.010	0.011	
9	0.009	0_011	0.011	0.009	C.009	
10	0.008	0.009_	0.009	800.0	0.007	
11	0.006	0.007	0.008	0.009	0.008	
12	0.007	0.009	0.011	0.012	0.011	
13	0.009	0.011	0.012	0-011	0.009	
14,	0•009	0.011	0-011	0.012,	0.010	-
15	0.007	0.010	0.010	0.015	0.017	
16	0.007	0.009	0.003	0.010	0.013	
17	0.008	0.008	0.005	0.005	0.005	
18	0.007	0.007	0.006, ,,	0.005	0.006	
19	0.006	0.006	0.006	0.006	0.006	
20	0.006	0.007	0.006	0.005	0.006	•

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		CRITICED 3	GRID D	-93-
• • • • •		•		
	C1	ORRECTED SPI	ECTRUM,(F-S	TAR)
]		20	·	
4	20 -19	_0.007		
	-19 18	0.006 0.006		
}	-17	0.009		
		_0.009		
	-15	0.006		
1	-14 -13	0.006	,	1:3
	-13 12	0.008 0.011		
[-11	0.014	, , , , , , , , , , , , , , , , , , , 	
1				
	-10	0.013		
13		0.011		· · · · · · · · · · · · · · · · · · ·
	-8 -7	0.011 0.013		and the second of the second o
11	-6	0.011		***************************************
12	-5	_0.012		• • •
14	-4	0.014		
3	3	_0.014		*====================================
	-2	0.017		,
1		0.031		* = = = = = = = = = = = = = = = = = = =
	0	0.042		
)	1	0.029		
i	2	0.018		
	3 ·	0-013		•
7	^	0.013 0.013		
	6	_0.010	•	
I	7	0.012		,
,	8		************	医腹膜 医连接性 医皮肤性 医皮肤
•	9	0.011		***
)	10	0.007		# # # # # # # # # # # # # # # # # # #
1	11	_0.008		
	12	0.009		•
·	13	_0.007		化异异子 电电子电阻 医克里耳氏 医甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲
•	14 · 15	0.008 _0.015		
	16	0.013		***************************************
ı	17	0.006		
	18	0.006		
	19	0.006		· · · · · · · · · · · · · · · · · · ·
•	20	0.006		
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	CARSON	1 GRID E) 4-	
	CORRECTED S	PECTRUM.	(F-STAR)			
				reservation of a		
	0	1	2	3	<u></u> 4	1 tan 2 2
-20	0.005	0.005	0.004	0.005	0.001	
- 20	0.005	0.005 0.005	0.006	0.005	0.006	•
-18	0.005 0.005	0.005	0.007 0.008	0.006	0.006	
-17	0.005	0.006	0.007	0.008	0.006	
	0.005	0.005	0.006	0.007	0.008	
15	0.007	0.006	0.005	0.005	0.007	
-14	0.009	0.007	0.005	0.006	0.008	
-13	0.009	0.006	0.006	0.006	0.007	
-12	0.008	0.006	0.006	0.005	0.005	
-11	0.009	0.006	0.006	0.006	0.007	**********
-11	0.009	04000	0.000	0.008	0.001	
-10	0.009	0.008	0.008	0.009	0.010	• • • • • • • • • • • • • • • • • • • •
	0.013	0.011	0.011	0.011	0.011	
-8	0.015	0.015	0.016	0.015	0.013	
	U. 018	0.021	0.021	0.020	0.018	
-6	0-029	0.033	0.025	0.022	0.021	
5	0.050	0.042	0.036	0.032	0.028	
-4	0.121	0.072	0.054	0.040	0.034	
	0.319	0.195	0.102	0.054	0.041	
-2	0.965	0.489	0.196	0.100	0.050	
	8-177	1.590	0.379	0.175	0-070	
0		5.347	0.568	0.208	0-077	
ĭ	8.177	2.673	0.519	0.171	0.072	
2	0.965	0.822	0.313	0.125	0.075	
3	0.319	0.328	0.158	0.081	0.064	
4	0.121	0.137	0.082	0.057	0.043	
7 5	0.050	0.052	0.047	0.037	0.028	
6_	0.029	0.027	0.031	0.037	0.024	
7	0.018	0.018	0.020	0.025	0.029	
8	0.015	0.018	0.020	0.023	0.029	
9	0.013	0.015	0.017	0.020	0.029	
	. 04013	0.017	0.017	0.020	0.027	
10	0.009	0.014	0.016	0.017	0.028	
11	0.009	0.014	0.015	0.013	0.021	
12	0.008	0.014	0.015	0.011	0.011	•
13	0.009	0.012	0.011	0.010	0.008	
14	0.009	0.010	0.011	0.010	0.008	
15	0.007	0.009	0.011	0.008	0.006	
16	0.005	0.007	0.008	0.007	0.006	M No
17	0.005	0.006	0.007	0.006	0.007	-
18	0.005	0.007	0.006	0.004	0.006	•
19	0.005	0.006	0.005	0.004		
	7.7 Y.X f					
	0.005				,	

CARSON 1 GRID E

CORRECTED SPECTRUM, (F-STAR)

	5	6	7	8	9	
-20	0.006	0.005	0.006	0.007	0.010	د سه د ساهد تا ند د
-19	0.005	0.006	0.007	0.008	0.010	
-18	0.005	0.007	0.009	0.009	0.009	
17	0.007	0.009	0.010	0.007	0.007	
-16	0.008	0.008	0.007	0.006	0.006	
	800-0	0.006	0.006	0.006	0.006	
-14	0-008	0.008	0.008	0.007	0.007	
-13	C.008	0.011	0.011	0.008	0.007	
-12	0-007	0.009	0.009	0.007	0.007	
	0.009	0.009	0.007	0.006	0.007	
-10	0.011	0.012	0.012	0.010	0.008	
-9	0.010	0.012	0.015	0.013	0.009	
-8	0.012	0.012	0.013	0.011	0.012	
-7	0.015	0.016	0.015	0.011	0.013	
-6	0.018	0.018	0.016	0.014	0.014	
-5	0.023	0.020	0.015	0.015	0.014	
-4	0.028	0.021	0.015	0.012	0.011	
~3	0.028	0.020	0.014	0.010	0.011	
-2	0.028	0.021	0.017	0.014	0.015	
-1	0.035	0.029	0.022	0.015	0-014	
0	0.041	0.037	0.025	0.014	0.011	
11	0.043	0.033	0.024	0.014	0.012	
2	0.049	0.028	0.017	0.012	0.013	
3	0-044	0.026	0.014	0.009	0.010	
4	0.029	0.021	0.013	0.010	0.012	
5	0.022	0-017	0.013	0.015	0.018	
6	0.021	0.017	0.015	0.019	0.020	
7	0.022	0.019	0.016	0.014	0.014	
8	0.022	0.017	0.015	0.011	0.009	
9	0.028	0-016	0.013	0.012	0•008	
10	0.038	0.022	0.011	0.012	0.009	
11	0.035	0.027	0.010	0.009	0.008	
12	0.019	0.022	0.011	0.008	0.009	
13	0.010	0.016	0.012	0.008	0.008	
14	0.008	0.011	0.010	0.007	0.006	
15	0.006	0.007	0.008	0.006	0.006	
16	0.006	0.006	0.007	0.007	0.006	
17	0.008	0.006	0.007	0.008	0.008	
18	0.006	0.006	0.007	0.009	0.010	
19	0.004	0.006	0.008	0.008	0.008	
20	0.004	0.006	0.008	0.007	0.007	•

10		_ CARSU	4 1 3010	**************************************		5-
-20		CORRECTED	SPECTRUM,	(F-STAR)	managaria da di da d	·
-19	and the second second second second second	10	11	12	13	14
-19	-20	0.012	0.009	0.007	0.006	0.006
-18			0.009	0.007	0.007	0.006
-17			0.008_	0.008	0.007	0.005
-16 0.007 0.007 0.009 0.009 0.007 -15 0.006 0.005 0.007 0.007 0.006 -14 0.008 0.007 0.006 0.006 0.006 0.006 -13 0.010 0.010 0.008 0.008 0.007 -12 0.008 0.010 0.010 0.009 0.008 -11 0.006 0.006 0.000 0.000 0.008 -11 0.006 0.007 0.007 0.006 0.008 -11 0.006 0.009 0.007 0.006 0.008 -11 0.009 0.009 0.007 0.006 0.008 -11 0.009 0.009 0.009 0.008 0.006 0.008 -11 0.009 0.009 0.009 0.008 0.006 0.008 -11 0.009 0.009 0.009 0.008 0.006 0.008 -11 0.009				0.008	0.008	0.007
-15	-			0.009	0.009	0.007
-14				0.007		0.006
-13 0.010 0.010 0.008 0.008 0.007 -12 0.008 0.010 0.010 0.009 0.008 -11 0.006 0.008 0.009 0.007 0.007 0.006 -11 0.006 0.008 0.009 0.007 0.007 0.007 -10 0.009 0.007 0.007 0.006 0.008 -9 0.009 0.009 0.008 0.006 0.008 -8 0.012 0.010 0.011 0.009 0.001 0.001 0.001 0.009 -7 0.013 0.011 0.012 0.011 0.009 -5 0.012 0.015 0.015 0.012 0.012 -4 0.012 0.013 0.015 0.012 0.011 -3 0.012 0.011 0.009 0.009 0.007 -2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 -1 0.014 0.013 0.011 0.010 0.008 -1 0.012 0.011 0.010 0.008 -1 0.012 0.013 0.011 0.010 0.008 -1 0.012 0.013 0.012 0.010 0.014 0.013 0.012 0.009 0.010 0.011 0.014 0.013 0.012 0.009 0.009 0.010 0.012 0.009			·			,
-12 0.038 0.010 0.010 0.009 0.008 -11 0.006 0.008 0.009 0.007 0.007 -10 0.007 0.007 0.007 0.006 0.008 -9 0.009 0.009 0.008 0.006 0.008 -8 0.012 0.010 0.011 0.009 0.007 -7 0.013 0.011 0.012 0.011 0.009 -5 0.012 0.013 0.013 0.010 0.009 -5 0.012 0.013 0.012 0.012 0.011 -3 0.012 0.011 0.009 0.009 0.007 -1 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.009 0.009 0.002 0.015 0.015 0.010 0.009 0.0012 0.013 0.011 0.010 0.009 0.0012 0.013 0.011 0.010 0.009 0.0014 0.013 0.011 0.010 0.009 0.0012 0.015 0.015 0.012 0.011 1 0.014 0.013 0.011 0.010 0.012 0.012 2 0.014 0.013 0.011 0.010 0.012 0.012 3 0.012 0.013 0.010 0.012 0.012 5 0.015 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 5 0.015 0.012 0.009 0.009 0.009 8 0.013 0.012 0.009 0.009 0.009 8 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.009 10 0.006 0.007 0.008 0.008 0.009 11 0.006 0.007 0.008 0.008 0.009 12 0.009 0.007 0.006 0.006 0.009 13 0.007 0.007 0.006 0.006 0.009 15 0.006 0.007 0.006 0.006 0.008 16 0.005 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.006				0.008	0.008	0.007
-11 0.006 0.008 0.009 0.007 0.007 -10 0.007 0.007 0.007 0.006 0.008 -9 0.009 0.009 0.008 0.006 0.008 -8 0.012 0.010 0.011 0.009 0.007 -7 0.013 0.011 0.012 0.011 0.009 -5 0.012 0.015 0.015 0.012 0.012 -4 0.012 0.013 0.012 0.012 0.012 -3 0.012 0.011 0.009 0.009 0.007 -1 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.015 0.012 0.012 2 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.012 2 0.014 0.013 0.010 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.015 0.015 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 5 0.015 0.012 0.009 0.009 0.014 4 0.013 0.012 0.009 0.009 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.010 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.009 0.009 0.010 1 0.007 0.018 0.016 0.013 0.009 9 0.008 0.013 0.010 0.012 0.009 10 0.006 0.007 0.008 0.008 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.006 0.006 0.008 15 0.006 0.007 0.006 0.006 0.008 16 0.006 0.007 0.006 0.006 0.008 16 0.006 0.007 0.006 0.006 0.008 17 0.006 0.007 0.006 0.006 0.008 18 0.008 0.007 0.006 0.006 0.006				0.010		
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-9 0.009 0.009 0.008 0.006 0.008 -8 0.012 0.010 0.011 0.009 0.007 -7 0.013 0.011 0.012 0.011 0.009 -6 0.012 0.013 0.013 0.010 0.009 -5 0.012 0.015 0.015 0.012 0.012 -4 0.012 0.011 0.009 0.009 0.007 -2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.009 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.010 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 2 0.014 0.013 0.010 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.009 0.009 0.010 7 0.017 0.018 0.016 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 10 0.006 0.007 0.008 0.003 0.009 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.006 0.007 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.007 0.008 16 0.005 0.005 0.006 0.007 0.008 16 0.005 0.005 0.006 0.007 0.007	-10	0.007	0.007	0.007	0.006	0.008
-8				0.008	0.006	0.008
-7 0.013 0.011 0.012 0.011 0.008 -6 0.012 0.013 0.013 0.010 0.009 -5 0.012 0.015 0.015 0.012 0.012 -4 0.012 0.013 0.012 0.012 0.011 -3 0.012 0.011 0.009 0.009 0.007 -2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.010 0.008 7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 11 0.006 0.007 0.008 0.003 0.009 12 0.009 0.007 0.006 0.009 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.006 0.006 0.008 16 0.006 0.007 0.006 0.006 0.008 17 0.006 0.007 0.006 0.006 0.008 18 0.008 0.007 0.006 0.006 0.006 19 0.008 0.007 0.006 0.006 0.006				0.011	0.009	0.007
-6 0.012 0.013 0.013 0.010 0.009 -5 0.012 0.015 0.015 0.012 0.012 -4 0.012 0.013 0.012 0.012 0.011 -3 0.012 0.011 0.009 0.009 0.007 -2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.001 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.009 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 10 0.006 0.007 0.008 0.003 0.009 11 0.006 0.007 0.008 0.008 0.008 13 0.007 0.007 0.006 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.007 0.008 0.008 0.008 17 0.006 0.007 0.008 0.008 0.008 18 0.008 0.007 0.008 0.008 0.008 19 0.006 0.007 0.008 0.006 0.009 10 0.006 0.007 0.008 0.008 0.008 11 0.006 0.007 0.008 0.006 0.009 12 0.006 0.007 0.008 0.008 0.008 13 0.007 0.007 0.008 0.008 0.008 14 0.006 0.007 0.008 0.006 0.009 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.006 0.006	-			0.012		0.008
-5 0.012 0.015 0.015 0.012 0.012 -4 0.012 0.013 0.012 0.012 0.011 -3 0.012 0.011 0.009 0.009 0.007 -2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.012 2 0.014 0.013 0.010 0.011 0.013 3 0.012 0.013 0.010 0.011 0.014 -4 0.013 0.012 0.009 0.011 0.014 -5 0.015 0.012 0.009 0.009 0.010 -6 0.016 0.013 0.012 0.009 0.009 7 0.017 0.018 0.016 0.013 0.009 -8 0.013 0.020 0.020 0.013 0.009 -9 0.008 0.013 0.015 0.012 0.009 -1 0.006 0.007 0.008 0.008 0.009 -1 0.006 0.007 0.008 0.008 0.009 -1 0.006 0.007 0.006 0.006 0.008 -1 0.006 0.007 0.008 0.008 0.008 -1 0.006 0.007 0.008 0.008 0.008 -1 0.006 0.007 0.006 0.006 0.008 -1 0.006 0.007 0.008 0.008 0.008 -1 0.006 0.007 0.006 0.006 0.008 -1 0.006 0.007 0.008 0.008 0.008 -1 0.006 0.007 0.006 0.006 0.008 -1 0.006 0.007 0.006 0.006 0.008 -1 0.006 0.007 0.008 0.008 0.008 -1 0.006 0.007 0.008 0.008 0.008 -1 0.006 0.007 0.008 0.006 0.008 -1 0.006 0.007 0.008 0.006 0.008 -1 0.006 0.007 0.008 0.008 0.008 -1 0.006 0.007 0.008 0.006 0.006 -1 0.007 -1 0.006 0.007 0.008 0.006 0.006 -1 0.007 -1 0.006 0.007 0.008 0.006 0.006 -1 0.007 -1 0.006 0.007 0.006 0.006 0.006			0.013	0.013	0.010	0.009
-4 0.012 0.013 0.012 0.012 0.011 -3 0.012 0.011 0.009 0.009 0.007 -2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.016 0.013 0.012 0.009 0.009 8 0.013 0.020 0.020 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 11 0.007 0.007 0.008 0.008 10 0.006 0.007 0.008 0.008 0.008 11 0.009 0.007 0.006 0.006 0.008 12 0.009 0.007 0.006 0.006 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008	_		0.015	0.015	0.012	0.012
-3 0.012 0.011 0.009 0.009 0.007 -2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.009 0.009 7 0.017 0.018 0.012 0.010 0.008 7 0.017 0.018 0.016 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 10 0.006 0.007 0.008 0.003 0.009 11 0.007 0.007 0.008 0.008 0.008 13 0.007 0.007 0.006 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.006 0.006 0.008 16 0.005 0.007 0.008 0.008 0.008 17 0.006 0.007 0.008 0.009 18 0.008 0.007 0.008 0.008 0.008 19 0.008 0.007 0.006 0.006 0.008				0.012	0.012	0.011
-2 0.014 0.011 0.009 0.009 0.007 -1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.016 0.013 0.012 0.009 0.009 7 0.017 0.018 0.012 0.010 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 9 0.008 0.013 0.015 0.012 0.009 11 0.007 0.007 0.008 0.008 0.009 12 0.009 0.007 0.008 0.008 0.009 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.006 0.006 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.007 0.008 0.008 0.008 17 0.006 0.007 0.008 0.008 0.008 18 0.005 0.005 0.006 0.006 0.006 19 0.009 0.007 0.006 0.006 0.006	-			0.009	0.009	0.007
-1 0.014 0.013 0.011 0.010 0.008 0 0.012 0.015 0.015 0.012 0.011 1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.011 0.014 5 0.016 0.013 0.012 0.009 0.009 7 0.017 0.018 0.012 0.010 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.008 0.008 0.009 12 0.009 0.007 0.006 0.006 0.009 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.006 0.006 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.007 0.008 0.008 0.008 17 0.006 0.007 0.006 0.006 0.008 18 0.008 0.005 0.006 0.006 0.007	~ 			0.009	0.009	0.007
1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 0.008 7 0.016 0.013 0.012 0.009 0.010 0.008 7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.003 0.009 11 0.007 0.007 0.006 0.006 0.006 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007	_			0.011	0.010	0.008
1 0.014 0.015 0.013 0.012 0.012 2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 0.010 6 0.016 0.013 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.009 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.009 11 0.007 0.007 0.008 0.003 0.009 12 0.009 0.007 0.006 0.006 0.006 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.007 0.007 19 0.009 0.010 0.010 0.007 0.007	0	0-012	0.015_	0.015	0.012	0-011
2 0.014 0.013 0.010 0.012 0.013 3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.010 0.003 7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.003 0.009 11 0.007 0.007 0.008 0.008 0.009 12 0.009 0.007 0.006 0.006 0.008 13 0.007 0.006 0.006 0.008 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.005 <td></td> <td></td> <td></td> <td>0.013</td> <td>0.012</td> <td>0.012</td>				0.013	0.012	0.012
3 0.012 0.013 0.010 0.011 0.014 4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.010 0.008 7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.009 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.008 0.008 16 0.005 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.006			0.013	0.010	0.012	0.013
4 0.013 0.012 0.009 0.011 0.014 5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.010 0.008 7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.003 0.009 11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.006 0.008 13 0.007 0.007 0.008 0.008 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.005 0.006 0.007 0.006 0.007 16 0.005 0.005 0.006 0.006 0.007					0.011	0.014
5 0.015 0.012 0.009 0.009 0.010 6 0.016 0.013 0.012 0.010 0.003 7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.006 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.008 0.008 16 0.005 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007	4			0.009	0.011	0.014
6 0.016 0.013 0.012 0.010 0.008 7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.003 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.006 0.008 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.008 0.009 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.006	5			0.009	0.009	0.010
7 0.017 0.018 0.016 0.013 0.009 8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.003 0.009 11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.008 13 0.007 0.007 0.006 0.006 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.006 0.007 17 0.006 0.005 0.006 0.006 0.007 18 0.008 0.007 0.006 0.006 0.006	6	-		0.012	0.010	0.009
8 0.013 0.020 0.020 0.013 0.009 9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.008 13 0.007 0.007 0.006 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.009 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 0.006 18 0.008 0.007 0.006 0.007 0.007 0.007 19 0.009 0.010 0.010 0.007 0.007	7	·		0.016	0.013	0.009
9 0.008 0.013 0.015 0.012 0.008 10 0.006 0.007 0.008 0.008 0.009 11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.008 13 0.007 0.007 0.006 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.007 18 0.008 0.007 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007	Ŕ		0.020	0.020	0.013	0.009
11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.008 13 0.007 0.007 0.008 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.007 18 0.008 0.007 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007				0.015	0.012	0.008
11 0.007 0.007 0.007 0.007 0.009 12 0.009 0.007 0.006 0.006 0.008 13 0.007 0.007 0.008 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007	10	0.006	0.007			0.009
12 0.009 0.007 0.006 0.006 0.008 13 0.007 0.007 0.006 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007				0.007	0.007	0.009
13 0.007 0.007 0.006 0.007 0.008 14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.008 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007				0.006	0.006	0.008
14 0.006 0.007 0.008 0.008 0.008 15 0.006 0.007 0.008 0.008 0.009 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007 0.007				0.706	0.007	0•008 j
15 0.006 0.007 0.008 0.008 0.009 16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007					0.008	0.008
16 0.005 0.005 0.006 0.007 0.007 17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007 0.007	-			0.008	0.008	0.003
17 0.006 0.005 0.006 0.006 0.006 18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007 0.007						0.007
18 0.008 0.007 0.006 0.006 0.007 19 0.009 0.010 0.010 0.007 0.007				0.006		0.006
19 0.009 0.010 0.010 0.007 0.007						*· • • • ·
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20 0.008 0.011 0.011 0.007 0.006	20	0.008	0.011	0.011	0.007	0.006

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•	CARSON	1 GRID E		. •	-97-	
ழம் ப ெறுவைக்குள்ளை செய்யார்.	CORRECTED	SPECTRUM,	(F-STAR)	a and she she will be a second as an engage of	el reno sento sego.	
····	15	16	17	18	. 19	
-20		0.006	0.006	0.006	0.006	
	0.006	0.007	0.008	0.006	0.005	
-18	0.004	0.006	0.008	0.006	0.004	
-17	0.005	0_006	0.007	0.005_	0.005	
-16 -15	0.006 0.007	0-006 0.005	0.006 0.005	0.007 0.006_	0.005 0.011	
-14	0.006	0.005	0.005	0.008	0-011	****
-13	0.006	0.005	0.006	0.008	0.009	
-12	0.007	0.006	0.005	0.004	0.006	
-11	0.008	0.007	0.006	0.005_	0.005	
-10	0.008	0.007	0.006	0.006	0.008	
-9	0.008	0.006	0.005	0.007	0.008	
-6.	0.006	0.007	0.007	0.007	0.008	
-7	0.007	0.007	0.007	0.007	0.008	
	0.010_	0.009_	0.006	0.006_	0.008	
-5	0.011	0.009	0.006	0.006	0.007	
	0.008	0.006	0.005	0.006	0.007	
-3	0.006	0.007	0.008	0.007	0.007	
	Q.007	0.009	0.010	0.007	0.007	
-i	0.008	0.009	0.009	0.006	0-015	
0	0.010	0-010	0.011	0.014	0.030	-
	0.01Q	0.010	0•009	0.012_	0.020	
. 2	0.010	0.010	0.009	0.010	0.012	
3	0.012	0.009	0.009	0.011	0.012	• • • •
<u>.</u>	0.010	0.007	0.008	0.010	0.011	
	0.008	0.007	0.009	0.010_	0.010	
	0.006	0.007	800.0	0.008	0.008	
	0.007	0.007 0.008	0.007 0.007	0.006 0.007	0.007	٠.
9 .	Q.007	0_007	0.007	0.007	0.007	
10_	0.011	0.010	0.007	0.008_	800.0	
11	0.014	0.013	0.008	0.007	0.008	
12	0.010	0.011	0.010	0.010	0.008	
13	0.007	0.007	0.009	0.011	0-009	
	800.0	0.006	0.006	0.009	0.008,	· • ·
15	0.007	0.005	0.004	0.007	0.008	
'16 17	0,007	0.00 <u>5</u>	0.004 0.006	0.006 0.007	0.009	
18	0.008 0.008	0.007	0.007	0.007	0.010	
19	0.008	0.007	0.006	0.005	* 0.006	• ;
20	0.007	0.007	0.006	0.005	0.006	
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	CORRECTED SPECTRUM, (F-STAR)	
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-11	. 0.008	•
-10	0.009	-
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-4	0.007	
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-2	0.009	
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CORRECTED SPECTRUM, (F-STAR)

	0	1	2	3	4
-20	0.009	0.010	0.008	0.009	0.009
-19	0.008	0.009	0.009	0.009	0.079
18	0.007	0.009	0.010	0.013	0-011
-17	0.008	0.010	0.012	0.015	0.010
16 <u></u>	0.010	0.012	0.013	0.012	0.010
-15	0.009	0.012	0.013	0.009	0.010
-14	0.010	0.012	0.011	0.007	0.007
-13	0.013	0.013	0.009	0.006	0.006
-12	0.013	0-012	0.008	0.008	0.011
-11	0.015	0.017	0.014	0.016	0.020
-10	0.017	0.021	0.021	0.025	0.024
-9	0.012	0.018	0.029	0.039	0.027
-8	0.010	0.015	0.041	0-054	0.030
	0.014	0.022	0.047	0.052	0.029
-6	0.024	0.029	0.039	0.036	0.023
- 5	0.040	0.035	0.030	0.029	0-021
-4	0.087	0.060	0.047	0.042	0.026
-3	0.198	0.121	0.080	0.066	0.044
-2	0.831	0-299	. 0.133	0.095	0.071
-1	12-540	2.041	0.474	0-181	0.109
o		14.293	1.588	0.426	0.191
1	12.540	5.246	1.281	0.390	0,212
2	0.831	1.153	0.768	0.249	0.139
3	0.198	0.425	0.746	0.459	0.135
4	0.087	0.166	0.429	0-450	0.168
5	0.040	0.065	0.147	0.184	0-104
6	0.024	0.028	0.047	0.057	0.056
, 7	0.014	0.014	0.019	0.026	0.035
8	0.010	0.011	0.013	0.015	0.020
9	0.012	0.010	0.011	0.014	0-016
10	0.017	0.012	0.012	0.015	0.016
11	0.015	0.012	0.012	0.013	0.010
12	0.013	0.010	0.012	0.015	0.012
13	0.013	0.008	0.010	0.014	0.014
14	0.010	0.008	0.009	0.008	0.009
15	0.009	0.008	0.007	0.006	0.009
16	0.010	0.007	0.005	0.006	0.009
17	0.008_	0.006	0.005	0.006	0.007
18	0.007	0.006	0.008	0.006	0.005
19	0.008	0.007	0.007	0.006	0.006
20	0.009	0.007	0.006	0.007	0.007
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CORRECTED SPECTRUM, (F-STAR)

Automorphism Automorphism (Automorphism)	5	6	7	.8	9
-20	0.008	0.011	0.013	0.009	0.006
-19	800.0	0.011	0.012	0.008	0.007
-18	0.011	0.013	0.010	0.010	0.011
-17	0.013	0.015	0.011	0.013	0.015
-16	6-014	0.015	0.011	0.012	0.013
-15	0.016	0.017	0.014	0.012	0.012
-14	0.010	0.014	0.014	0.012	0.010
-13	0.008	0.010	0.013		0.008
-12	0.011	0.010	0.012	0.008	0.006
-11	0.017	0.015	0.014	0.011	0.009
,					
-10	0.021	0.019	0.016	0.014	0.013
-9	0.019	0.017	0.013	0.012	0.014
-8	0.020	0.016	0.013	0.013	0.016
-7	0.019	0.013	0.013	0.017	0.019
6	0.017	0.016	0.018	0.024	0.024
-5	0.017	0.023	0-028.	0.030	0.035
-4	0.019	0.027	0.036	0.034	0.037
- 3	0.027	0.025	0.032	0.035	0.030
-2	0.044	0.029	0.024	0.025	0.023
-1	0.065	0.036	0.027	0.026	0.025
0	0.093	0.047	0.035	0.041	0.039
1	0.106	0,055	0.039	0.044	0.044
2	0.097	0.053	0.034	0.035	0.041
3	0.067	0.043	0.022	0.017	0.023
4	0.042	0.026	0.014	0.010	0.015
5	0.033	0.019	0.020	0.015	0.015
. 6	0.038	0.026	0.032	0.024	0.013
<i></i> 7	0.033	0.025	0.027	0.020	0.010
8	0.025	0.020	0.015	0.011	0.009
9	0.020	0.018	0.013	0.009	0.008
				2 222	0.000
10	0.015	0.014	0.011	0.009	0.008
11	0.010	0.011	0.008	0.007	0.008
	0.010	0•009	0.006	0.007	0.007
13	0.010	0.009	0.008	0.009	0.008
	0.010			0.011	0.010
15	0-012	0.011	0.011	0.015	0.016
16	0.010	0.009	0.011		
17	0.007	0.007	0.008	0.011	0.010
18	0.005	0.006	0.008	0.009	0+009
19	0.006	0.006	0.008	0.008	0.009
20	0.007	0.006	0.007	800.0	0.009

	CARSO	N 2 GRID	F	•	-102-	
No. and	CORRECTED	SPECTRUM.	(F-STAR)	and the second of the second o	• I • • • • • •	
-	15	16	17	18	19	e vermen havenhaus vol. 12. g at a 12. d.
-20	0.006	0.005	0.004	0.004	0.006	er week waar aan geraal geraal an ee ee ee ee
-19		0:004	0.004	0.005	0.006	
-18	0.005	0.004	0.004	0.005	0.005	
:::17	0.004_	0.005_	0.005	0.005	0.005	
-16	0.003	0.006	0.007	0-005	0.007	
15	0.003	0.007_	0.009	0.005	0.007	
-14	0.006	0.009	0.011	0.006	0-006	
13_	0.009	0.009	0.010	0.007	0.007	
-12	0.010	0.010	0.010	0.009	0.008	
=11	0.009	0.009	0.008	0.009	0.010	
		,	,		†	
-10	0.008	0.007	0.006	0.008	0.012	
-9	0.009	0.009	0.009	0.012	0.018	
8_	0.013	0.013_	0.013	0.015	0.018	
-7	0.022	0.020	0.018	0.015	0.013	;
6_	0.029_	0.024	0.019	0.016	0.014	
-5	0.020	0.017	0.016	0.016	0.016	
-4	0.010	0.014_	0.014	0.013	0.014	
-3	0.013	0.013	0.011	0.010	0.011	
-2	0.017	0.014	0.011	0.010	0.011	
-1	0.017	0.013	0-011	0.013	0.018	
0	0.014	0.013	0.012	0.018	0.028	,
1	0.015	0.012	0.012	0.016	0.022	
2	0-014	0.013	0-014	0.015	0.017	
3	0.015	0.013	0.013	0.011	0.012	-
4	0.013	0.014	0.014	0.011	0.010	
5_	0.012_	0.014_	0.014	0.013	0.009	500 W 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
6	0.012	0.011	0.008	0.009	0.007	
7	0.009	0.007	0.007	0.008	0.007	* * * * * *
8	0.008	0.008	0.010	0.012	0.012	
9.	00.008	0.009	0.011	0.015	0.018	
10_	0.007	0.007	0.009	0.016	0.020	
11	0.005	0.006	0.010	0.014	0.015	
12	0. 006	0.008	0.009	0.008	800•0	
13	0.010	0.011	0.008	0.007	0.008	
14	0.011	0.011.	0.009	0.007	0.007	and an an an and and an
15	0.008	0.008	0.006	0.006	0.007	
16_	0.007_	0.005	0.005	0.005	0.006	
17	0.005	0.004	0.005	0.006	0.007	
18	0.007	0.005	0.005	0.007	0.007	
19	0.007	0.005	0.004	0.005	0.005	
20	0.006	0.005	0.004	0.004	0.004	

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CORRECTED SPECTRUM, (F-STAR)

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-19	The second section of the second section is a second section of the section	0	1	2		4	
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15 0.058 0.071 0.069 0.060 0.059 16 0.061 0.061 0.055 0.054 0.058 17 0.059 0.048 0.053 0.061 0.066 18 0.045 0.044 0.055 0.060 0.070 19 0.040 0.051 0.055 0.052 0.056		0.074	0.077	0.059	0.047	0.052	
16 0.061 0.061 0.055 0.054 0.058 17 0.059 0.048 0.053 0.061 0.066 18 0.045 0.044 0.055 0.060 0.070 19 0.040 0.051 0.055 0.052 0.056	14	0.068	0.078	0.074	0.059	0.052	,,,,
16 0.061 0.061 0.055 0.054 0.058 17 0.059 0.048 0.053 0.061 0.066 18 0.045 0.044 0.055 0.060 0.070 19 0.040 0.051 0.055 0.052 0.056		0.058	0.071	0.069	0.060	0.059	
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18 0.045 0.044 0.055 0.060 0.070 19 0.040 0.051 0.055 0.052 0.056		0.059_	0.048	0.053	0.061	0.066	
	18	0.045		0.055	0.060		
20 0.052 0.069 0.059 0.048 0.051	19	0.040	0.051	0-055	0.052	0.056	
20 0.052 0.069 0.059 0.048 0.051	•		2 245	0.050	0.040		
	20	0.052	0.069	0.059	U•048	0.051	-
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CORRECTED SPECTRUM, (F-STAR)

	5	6	7	8	9
-20	0.050	0.041	0.048	. 0.054	0.057
19	0.062	0.051	0.049	0.054	0.061
-18	0.075	0.067	0.055	0.056	0.062
17	0.062	0.061	0.053	0.055_	0.057_
-16	0.049	0.049	0.050	0.054	0-047
15	0.063	0.068	0.061	0.054_	0.046
-14	0.066	0.075	0.071	0.061	0.053
	0.057	0.C68	0.078	0.072	0.060
-12	0.059	0.066	0.069	0.061	0.060
11	0-067	0.063	0.055	0.056_	0.064
-10	0.062	0.062	0.064	0.070	0.076
-9	0.057	0.064	0.060	0.061	0.063
 8	0.070	0.007	0.056	0.052_	0.053
- 0	0.083	0.084	0.064	0.054	0.065
-			0.062	0.055	0.065
6	0.077 0.077	0.079		0.060	0.063
- 5		0.076	0.056	and the second s	
4	0.074	0.087	0.075	0.068	0.065
-3	0.084	0.160	0.095	0.086	0.086
	0 • 105	0.102	0.084	0.076 _	0.083
-1	0-141	0.137	0.102	0-082	0.077
0	0.163	0.150	0.194	0.099	0.094
1	0.109	0•089	0-078	0.085	0.093
2	0.087	0.071	0.076	0.078	0-093
3	0.113	0.085	0.072	0.061	C-070
4	0.124	0.096	0-071	0.057	0.063
5	0.112	0.086	0.069	0.059_	0.059
6	0.099	0.070	0.063	0.061	0.053
7	0.0.080	0.082	0.076	0.069	0.063
8	0.071	0.082	0.071	0.062	0.066
9	0-077	0.07.9	0.063	0.049	0.056
10	0.075	0.081	0.060	0.047_	0.057
11 .	0.061	0.068	0.062	0.062	0.062
12	0.056	0.058	0.077	0.072_	0.055
13	0.050	0.049	0.071	0.068	0.057
14	0.048	0.047	0.060	0.066	0.068
15	0.054	0.056	0.057	0.058	0.063
16	0.056	0.058	0.054	0.049	0.048
17	0.058	0.052	0.055	0.055	0.048
18	0.061	0.051	0-057	0.057	0.057
19	0.051	0-044	0.051	0.054	0.054
20	0.050	0.045	0.050	0.052	0.050

058 0. 058 0. 058 0. 055 0. 048 0. 049 0. 055 0. 054 0. 061 0.		12 0.059 0.062 0.057 0.060 0.068 0.059 0.057 0.060 0.043 0.049	0.064 0.066 0.056 0.059 0.069 0.053 0.046	0.060 0.058 0.045 0.047 0.071 0.066 0.050
058	060 052 046 055 062 061 069 077	0.059 0.062 0.057 0.060 0.068 0.059 0.057 0.060	0.064 0.066 0.056 0.059 0.069 0.053 0.046	0.060 0.058 0.045 0.047 0.071 0.066
058	060 052 046 055 062 061 069 077	0.059 0.062 0.057 0.060 0.068 0.059 0.057 0.060	0.064 0.066 0.056 0.059 0.069 0.053 0.046	0.060 0.058 0.045 0.047 0.071 0.066
053 0.056 0.055 0.048 0.055 0.063 0.054 0.061 0.066 0.066 0.060 0.060 0.060	052 046 055 062 061 069 077 053	0.062 0.057 0.060 0.068 0.059 0.057 0.060	0.066 0.056 0.059 0.069 0.053 0.046	0.058 0.045 0.047 0.071 0.066
055 0. 055 0. 048 0. 049 0. 055 0. 063 0. 054 0. 061 0.	046 055 062 061 069 077 053	0.057 0.060 0.068 0.059 0.057 0.060 0.043	0.056 0.059 0.069 0.053 0.046	0.045 0.047 0.071 0.066 0.050
055 0.048 0.049 0.055 0.063 0.054 0.061 0.066 0.066 0.066 0.060 0.066	055 062 061 069 077 053_	0.060 0.068 0.059 0.057 0.060 0.043	0.059 0.069 0.053 0.046 0.051	0.047 0.071 0.066 0.050
048 0. 049 0. 055 0. 063 0. 054 0. 061 0.	062 061 069 077 053_	0.068 0.059 0.057 0.060 0.043	0.069 0.053 0.046 0.051	0.071 0.066 0.050
049 0. 055 0. 063 0. 054 0. 061 0.	061 069 077 053	0.059 0.057 0.060 0.043	0.053 0.046 0.051	0.066 0.050
055 0. 063 0. 054 0. 061 0.	069 077 053	0.057 0.060 0.043	0.046	.: 0. 050
063 0. 054 0. 061 0. 066 0.	077 053	0.060 0.043	0.051	of the first of the contract o
054 0. 061 0. 066 0. 060 0.	053	0.043		√ 0 ₄ 050
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066 0. 060 0.	059	0.049		0.057
0.0			0.041	0.060
	067	0.061	0.050	0.057
\£7 ^	063	0.060	0.057	0.067
)57 0.	060	0.053	0.048	0-059
620.	058	0.051	0.045	0.048
	052	0.046	0.053	0.052
0.0	058	0.043	0.050	0.050
	067	0.062	0.058	0.057
760.	066	0.065	0.067	0.075
	062	0.066	0.071	0.031.
0.	066	0.082	0.094	0.104
0.	069	0.082	880.0	0.102
73 0.	978	0.073	0.057	0.072
0.	070	0.062	0.049	0.061
		0.068	0.057	0.049
				_0.062
				0.071
	,			0.059
	1			0.050
				0.060
067 0.	066	0.058	0.062	0.069
160 0.	057	0-052	0-072	0.068
				0.076
0.0	055	0-049		
51 0-	d58	0-058	0-061	0-068
50 0-	067	0-073	0-070	0-064
056 00	059	0-070	0-078	0.060
0470.	046	0.048	0.059	0.064
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	 -		and the same of th	Frontier Committee (Lander Committee
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	65 0. 75 0. 68 0. 57 0. 63 0. 66 0. 67 0. 69 0. 59 0. 59 0. 51 0. 50 0.	65 0.063 75 0.071 68 0.069 57 0.076 63 0.084 66 0.076 67 0.066 69 0.057 64 0.054 59 0.065 53 0.054 62 0.054 62 0.054 50 0.055 51 0.058 50 0.065 51 0.059 49 0.045	65 0.063 0.068 75 0.071 0.074 68 0.069 0.074 57 0.076 0.074 63 0.084 0.073 66 0.076 0.067 67 0.066 0.058 69 0.057 0.052 64 0.054 0.052 59 0.065 0.065 53 0.054 0.056 62 0.054 0.058 50 0.055 0.049 51 0.058 0.058 50 0.067 0.073 56 0.059 0.070 49 0.045 0.056	65

सम्बद्धाः विकासकार्वे विकास स्थापना होत्याः विकासकार्वे विकास स्थापना विकास विकास होता । विकास विकास विकास विकास

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	SILL 1	GRID G		-107	
· · · · · · · · · · · · · · · · · · ·	CORRECTED	SPECTRUM,	(F-STAR)	April 1	
and the second s	15	16	17	18	19
-20	0.058	0.063	0.084	0.077	0.047
19	0.061	0.061	0.071	0.067	0.047
-18	0.051	0-051	0.051	0.054	0.050
17	0.049	0.054	0.053	0.058	0.058
-16	0.071	0.061	0.055	0.058	0.065
15	0.074	0.063	0.057	0.067	0.072
-14	0.052	0.051	0.062	0.076	0.063
	0.041	0.048	0.071	0.069	0.050
-12	0.056	0.054	0.064	0.056	0.046
	0.06.9	0.066	0.066	0.055	0.045
-10	0.070	0.068	0.066	0.059	0.056
-9	0.075	0.066	0.063	0.068	0.064
8	0.062	0.064	0.070	0.073	0.059
-7	0.054	0.062	0.061	0.065	0.061
	0.058	0.061	0.056	0.055	0.061
-5	0.052	0.057	0.064	0.060	0.064
	0.058	0.066	0.074	0.068	0.061
-3	0.065	0.054	0.061	0.064	0.059
	0.068	0.053	0.061	0.065	0.062
-1	0.085	0.064	0.075	0.079	0.081
0	0.090	0.074	0.076	0.076	0.100
1	0.080	0.075	0.068	0.071	0.093
2	0.070	0.068	0-061	0.075	0.091
3	0.050	0.060	0.066	0.078	0.092
. 🍎	0.055	0.070	0.082	0.080	0.066
5	0.063	0.083	0.092	0.075	0.050
6	0.063	0.075	0.066	0.056	0.047
7	0.067	0.068	0.062	0.080	0.071
8	0.076	0.071	0.068	0.088	0-083 0-076
9	0.075	0_070	0.069	0.072	0.010
10	0.060	0.058	0.063	0.065	0.061
11	0.063	0.054	0.057	0.063	0.064
12	0. 06.9	0.065	0.058	0.058	0.065
13	0.074	0.090	0.072	0.057	0.052
14	0.073	0.076	0.058	0.04B	0.048
15	0.067	0.054	0.052	0.058	0.060
16	0 <u>,</u> 065	0.061	0.065	0.072	0.072
17	0.054	0.059	0.069	0.071	0.072
18	0.044	0.051	0.060	0.062	0.064
19	0-055	0.059	0.066	0.071	0.075
20	0.062	0.061	0.066	0.075	0.079

t cat of	SILL 1 GRID G	••••••••••••••••••••••••••••••••••••••
	CORRECTED SPECTRUM.	(F-STAR)
•	20	
		·
-19	0.047	
18		· · · · · · · · · · · · · · · · · · ·
-17	0.060	
-15	0.067	
		-
-13	0.043	
-12	0.047	医骨条骨术 化硫铁 电工工工 医乳腺素 经有关证 医胃痛 医多种病 医格特氏氏病 医多种原因 医皮肤 医多种皮肤 医皮肤 医皮肤 医皮肤 医皮肤 化二氯甲酚二氯甲酚二氯甲酚二酯
-11	0.045	•
-10	0.056	•
-6	0.050	•
		· · · · · · · · · · · · · · · · · · ·
-6	0.069	•
-5.	0.070	
-4	0.060	
_ 3	0.057	· ************************************
-2	0.060	
1.	0.094	
0	0.154	•
1	0.121	
2		
	0.077	
3	0.063	•
		医角性性病性溃疡性 医牙髓性炎 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性
5 . 6	0.051	
	0.046	
7	0.059	
	0.074	
9	C.082	
10	0.067	
10	0.068	•
12	0.068	
13.		
	0.049	namanan namanan namana
15.		
15. 16	0.072	· · · · · · · · · · · · · · · · · · ·
17	0.075	•
18	0.068	
19		
, 		
20	0.070	
		•
		The state of the s

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		.CORRECTED.	SPECTRUM.	(F-STAR)		$\frac{d_{p}^{2}}{d_{p}^{2}} = \frac{d_{p}^{2}}{d_{p}^{2}} = \frac{d_{p}^{2}}{d_{$
		0	1.	2	3	4
					4.	
	20	0.012	0.011	0.011	0.011	0.010
	-19	0.010	0.011	0.012	0.011	0.009
	=18	0.00B	0.009	0.012	0.011	0.009
	-17	0.008	0.008	800.0	0.009	0.009
	16	0.008	0.008	0-009	0.010	0.009
•	-15	0.008	0.009	0.011	0.011	0.009
	-14	9.008	0.009	0.011	0.010	0.007
	-13 12	0.008	0.010	0.012 0.009	0.011 0.010	0.008 0.008
	-11		0.009		·	0.009
	-77	0.008	0.010	0.010	0.010	
-	-10	0.010	0.012	0.013	0.011	0.010
	-9	0.010	0.012	0.014	0.012	0.013
	-8	0.011	0.014	0.017	0.017	0.018
	7	0.016	0.016	0.020	0.024	0.021
	-6	0.025	0.027	0.024	0.024	0.026
		0.039	0.045	0.031	0.021	0.024
	-4	0.069	0.056	0.034	0.028	0.024
	-3	0.186	0.142	0.085	0.065	0.041
	-2	0- 996	0.642	0.357	0.199	0-091
		22.739	5.864	1.262	0.416	0-153
	•		27 6/4	2 04 9	0.473	0 174
	<u>•</u>	- 72 720 -	_27.566	2-048		0.174 0.107
	1 2	22.739	6.287 0.755	1.152 0.356	0.265 0.125	0.068
	3	0,996 0.186	0.206	0.171	0.095	0.058
•	•	0.069	0.080	0.083	0.076	0.054
	5	0.039	0.036	0.036	0.040	0.039
	6	0.025	0.029	0.029	0.034	0.031
	7	0.016	0.023	0.026	0.034	0.028
	8	0.011	0.015	0.023	0.028	0.021
	9	0.010	0.010	0.017	0.024	0.018
		****			-	
	10	0.010	0.010	0.014	0.019	0.016
	11	0.008	0.009	0.014	0.016	0.011
	12	0.009	0.010	0.015	0.014	0.012
	13	0.008	0.009	0.012	0.014	0.018
	14	0.008	0.008	0.009	0.012	0.016
	15	0.008	0.008	0.009	0.009	0.010
•	. 16	0.008	0.009	0.009	0.008	0.007
	17	0.008	0.010	0.010	0.009	0.008
	18 19	0.008	0.010	0.010 0.009	0.008	0.007 0.006
	4.7	0.010	0.010			TT VE GOOD TO THE TOTAL
	20	0.012	0.012	0.011	0-008	0.006
						management of the state of the
						entimentales en entimente entremande en consente como consente con
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CORRECTED SPECTRUM. (F-STAR)

	5	6	7	8	9
-20	0.008	0.007	0.007	0.008	0.008
	0.007	0.007	800 • 0	0 • 009	0.009
-18	0.008	800.0	0.010	0.012	0.010
-17	800.0	800.0	0.010	0.011	0.008
-16	900.0	0.008	0.008	0.007	0-005
	0.009	0.007	0.007	0.006	0.005
-14	0.008	0.008	0.010	0.009	0.007
	800.0.	0.008	0.012	0.012	0.009
-12	0.008	0.008	0.010	0.011	0.010
-11_	0.009	0.011	0.013	0.012	0.009
-10	0.011	0.012	0.013	0.013	0.011
-9	0.011	0.009	0.010	0.012	0.014
	0.013	0.009	0.010	0.011	0-015
-7	0.015	0.012	0.012	0.013	0.015
6	0.021	0.018	0.015	0.018	0.016
-5	0.025	0.019	0.015	0.016	0.014
- 4 . .	0.024	0.020	0.014	0.012	0.013
-3	0.028	-0-022	0.018	0.014	0.015
	0. 051	0.038	0.027	0.018	0.018
-1	0.083	0.069	0.047	0.058	0.027
0	0.095	0.083	0.064	0.048	0.039
, <u>.</u>	0.066	0.058	0.048	0.035	0.026
2	0.047	0.037	0.032	0.021	0.016
	0 • 037	0.029	0.033	0.025	0+015
4	• 0.029	0.022	0.024	0.020	0.013
5	0.027	0.022	0.072	0.019	C.014
6	0.022	0.017	0.017	0.017	0.015
7	0•016	0.013	0.011	0.012	0.014
8	0.012	0.011	0.009	0.008	0.010
9 .	0.012	0.011	0.010	0.009	0.009
10	0-012	0.011	0.011	0.010	0.010
11	0.010	0.011	0.011	0.011	0.010
	0.013	0.011	0.010 ,	0.009	0.008
13	0.017	0.014	0.012	0.009	0.008
14	0.015	0.012	0.012	0.009	0.008
15	0.010	0.009	0.010	0.009	0.008
16	0.006	0.006	0.007	0.006	0.006
17	0.007	0.006	0.006	0.006	0.007
18	0.007	0.007	0.007	0.007	0.007
19	0.007	0.008	800•0	0.006	0.005
20	0.007	0.008	0.008	0.006	0.004

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***********	- , ,	.CORRECTED.	SPECTRUM.	(F-STAR)		•
		10	11	12	13	14
	-20	0.005	0.005	0.007	0.008	0.007
	-19	0.007	0.007	0.007	0.008	0.008
	-18	0.008	0.008	0.008	0.009	0.010
	-17	0.006	0.006	0.007	0.008	0.010
	-16	0.005	0.005	0.006	0.007	0.007
	-15	0.006	0.008	0.009	0.009	0.008
	-14	0.009	0.011	0.011	0.010	.0.009
	-13	0.012	0.012	0.011	0.009	0.008
	-12	0.011	0.010	0.009	0.008	0.008
	-11	0.009	0.012	0.011	0.009	0.008
	- 10		A 61.7			
	-10	0.012	0.017	0.015	0.010	0.007
	9	0.014	0.014	0.014	0.010	0.007
	-8	0.014	0.012	0.011	0.010	0.00A
	7	0.014	0.013	0.009	0.008	0.009
	-6	0.013	0.012	0.010	0.010	0.013
	5 _	0.011	0.012	0.014	0.013	0.014
	-4	0.011	0.009	0.011	0.010	0.011
	3	0.012	0.009	0.008	0.009	0.013
	-2	0.016	0.012	0.010	0.009	0.012
	1	0.022	0.019	0.018	0.017	0.020
	0	0.029	0.029	0.034	0.033	0.029
	. 1	0.022	0.022	0.027	0.027	G. 020
	2	0.014	0.012	0.012	0.012	0.01 i
	3	0.015	0.013	0.010	0.010	0.010
	4	0.018	0.018	0.012	0.009	0.011
	5	0.014	0.014	0.011	0.009	0.010
	6	0.012	0.010	0.010	0.010	0.010
	7	0.013	0.009	0.008	0.011	0-011
	8	0.013	0.010	0.007	0.009	0.010
	9	0.012	0.011	0-008	0.007	0.008
	10	0.011	0.010	0.008	0.008	0.008
	11	0.009	0.007	0.006	0.008	0.008
	12	0.007	0.005	0.005	0.008	0.009
	_13	0.008	0.007	0.007	0.009	0.009
	14	0.008	0.008	0.008	0.008	0.007
	. 15	0.007	0.007	0.008	0.009	0.005
	16	0.006	0.006	0.007	0.008	0.006
	17	0.008	0.007	0.007	0.008	0.007
	18	0.010	0.009	0.007	0.007	0.008
n	19	0.007	0.007	0.007	0.008	800.0
	20		0.004	0.007	0.000	0.000
	.20	0.005	U. UUA	0.007		U•058: [*
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v 14. ja januari 12. julijus 1	SILL 2	GR ID 'H		*	12-	end de ser de de la lace de lace de la lace de l
	CORRECTED	SPECTRUM.	(F-STAR)		•	And the second of the second of the second of
and the second second	15	, 16	17	18	19	
-20	0.007	0.009	0.008	0.009	0.010	enter management specific and a second specific project of the second specific project
19	0-007	0.008	0.009	0.009	0.008	
-18	0.010	0.008	0.010	0.010	0.008	
17	0.012	0.010	0.010	0.010	0.009	
-16	0.007	0.008	0.009	0.008	0.007	
-15	0.007	0.007	0.008	0.007	0.007	
-14	0.007	0.006	0.007	0.007	0.007	
13	0.006	0.006	0.007	0.007	0.007	•
-12	0.007	0.006	0.007	0.006	0.007	
=11	0-007	0.007	0.007	0.007	0.008	
	0.007	0.007	0.008	0.008	0.011	•
-9	0.007	0.008	0.008	0.008	0.010	
	0.007	0.007	0.007	0.007	0.009	
-7	0.008	0.007	0.007	0.007	0.008	
6	0.011	0.008	0.008	0.007		.
	0.012	0.009	0.009	0.007	0•007 0•006	
-4	0.012	0.003	0.012	0.007		
-3	0.011	0.013	0.016		0.011	
-2.	0.011	0.013	0.012	0.013	0.013	
-1	0.021	0.019	0.012	0.011 0.012	0.012 0.020	
0	0.028	0.025	0.019	0.016	0.932	*
1	0.017	0.014	0.012	0.014	0.023	
2	0.010	0.010	0.010	0.014	0.013	
	0.010	0.010	0.013	0.015	0.011	
4	0.012	0.011	0-014	0.015	0.010	
5	0.011	0.011	0.013	0.014	0.011	
6	0.010	0.011	0.011	0.011	0.010	
	0.010	0.010	0.010	0•009	0.006	
8	0.011	0.010	0.009	0.009	0.008	
	0•01Q	0.010	800•0	0•009	0.011	**************************************
10	0.009	0.009	0.008	0.008	0.011	
11	0.007	0.008	0.009	0.008	0.009	
12	0.008	0.009	0.010	0008	0.005	
13	0.009	0.009	C-010	0.007	0.006	•
14	0.007	0.010	0.011	0.008	0.007	
15	0.005	0.007	0-008	0.007	0.002	•
16	0.005	0.005	0.006	0.006	0.009	
17	0.007	0.006	0.006	0.007	0.008	** * .use
18	0.008	0.007	0.007	0.007	0.008	•
19	0.008	0.007	0.007	0.007	0.007	
20	0.007	0.007	0.007	0.008	0.007	

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	CORRECTED	SPECTRUM,	(F-STAR)	e e e e e e e e e e e e e e e e e e e	**	
-	0	1	2	3	4	······································
-20	0.019	0.019	0.015	0.013	0.017	
-19	0.017	0.016	0.014	0.012	0.015	******
18	0.018	0.015	0.018	0.019	0.018	
-17	0.020	0.013	0.013	0.014	0.014	
16	0.017	0.012_	0.011	0.015	0.019	
-15	0.014	0.013	0.013	0.010	0.011	
14	0.016	0.015	0.015	0.012	0.013	
-13	0.017	0.018	0.016	0.014	0.017	
-12	0.018	0.018	0.019	0.021	0.023	
-11	0.022	0.019	0.024	0.027	0.022	
-10	0.032	0.028	0.039	0.041	0.027.	
-9	0.035	0.037	0.065	0.064	0.041	
-8	0.032	0.052	0.111	0.112	0.074	
-7	0.035	0.069	0.130	0.127	0.083	
-6	0.043	0.079	0.111	0.099	0.073	,
	0.063	0.083	0.079	0.049	0.034	
-4	0.127	0.097	0.097	0.091	0.064	
	0-249	0.176	0.157	0.102	0.084	
-2	0.579	0.482	0.185	0.084	0.092	
1	-4.703	3.545	5-488	3•768	1.331	· Martin State Comp. After State Comp. Ann. Ann. Ann. Ann. Ann. Ann. Ann. An
0		26.883	26.337_	15.604	5.391	
1	-4.703	4.268	10.098	8.039	3.276	
2	0-579	0.427	0.286	0.249	0.173	
3	0.249	0.216	0.122	0.055	0.040	
4	0.127	0.111	0.074	0.058	0.044	
- 5	0.063	0.057	0.064	0.080	0.069	
6	0.043	0.041	0.047	0.059	0.053	
7	0.035	0.037	0.043	0.064	0.064	
8	0.032	0.034	0.032	0.038	0.045	
9	0.035	0.036	0.031	0.034	0.044	
10	0.032	0.032	0.028	0.026	0.031	*********
11	0.022	0.023	0.026	0.027	0.026	Martine and the second
12	0.018	0.018	0.018	0.017	0.016	
13	0.017	0.015	0.014	0.012	0.012	
14	0.016	0.016	0.012	0.008	0.010	
15	0.014	0.015	0.014	0.011	0.016	
16	0.017	0.017	0.012	0.009	0.013	
17	0.020	0.023	0.016	0.014	0.015	
18	0.018	0.022	0.015	0.011	0.013	
19	0.017	0.017	0.013	0.012	0.017	

CORRECTED SPECTRUM, (F-STAR)					and the second	payment of the second of the	
		HOOD	1 GRID N		-115-		
-20	********	CORRECTED	SPECTRUM,	(F-STAR)	er van en samp er vertee da n van en	Proposition and Section 1995 Section 2005 Section 2005	
-19		V.3 7 Jul 5	6	7	8	9	
-19	-20	0-020	0-017	0-013	0-014	0-014	
-18							
-17	-18						
-16						0.017	
-14 0.015 0.018 0.021 0.015 0.011 -13 0.018 0.019 0.022 0.018 0.015 -12 0.021 0.020 0.022 0.021 0.019 -11 0.017 0.017 0.018 0.023 0.024 -10 0.021 0.016 0.016 0.018 0.021 -9 0.033 0.020 0.016 0.014 0.016 -8 0.043 0.027 0.024 0.020 0.018 -7 0.047 0.039 0.032 0.027 0.024 -6 0.052 0.046 0.040 0.044 0.044 -5 0.039 0.050 0.068 0.082 0.077 -3 0.159 0.216 0.183 0.105 0.048 -2 0.134 0.139 0.096 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.056 0.045 0 1.019 0.128 0.066 0.056 0.045 0 1.019 0.128 0.066 0.056 0.045 0 1.024 0.041 0.044 0.045 2 0.114 0.076 0.095 0.115 0.006 2 0.114 0.076 0.095 0.115 0.002 3 0.044 0.044 0.044 0.045 0.039 0.028 5 0.055 0.060 0.055 0.034 0.023 6 0.055 0.032 0.033 0.027 8 0.035 0.032 0.033 0.024 0.025 7 0.052 0.057 0.061 0.043 0.027 8 0.035 0.032 0.033 0.024 0.025 7 0.052 0.057 0.061 0.043 0.027 11 0.023 0.016 0.016 0.042 0.025 7 0.052 0.057 0.061 0.043 0.027 11 0.023 0.016 0.016 0.021 0.022 12 0.017 0.016 0.016 0.021 0.022 14 0.019 0.024 0.027 0.025 0.024 15 0.021 0.024 0.027 0.025 0.020 14 0.019 0.025 0.026 0.018 15 0.021 0.024 0.027 0.025 0.020 16 0.017 0.024 0.027 0.025 0.020 17 0.014 0.018 0.017 0.013 0.015 18 0.017 0.024 0.027 0.025 0.020 19 0.018 0.018 0.017 0.013 0.015	-16	. 0.017	0.023	0-023	0.015	0.013	
-13		0.015	0.022	0.022	0.013	0.009	
-12							
-11							
-10 0.021 0.016 0.016 0.018 0.021 -9 0.033 0.020 0.016 0.014 0.016 -8 0.043 0.027 0.024 0.020 0.018 -7 0.047 0.039 0.032 0.027 0.024 -6 0.052 0.046 0.040 0.044 0.044 -5 0.039 0.050 0.068 0.082 0.074 -4 0.079 0.131 0.165 0.136 0.077 -3 0.159 0.216 0.183 0.105 0.048 -2 0.134 0.139 0.096 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.045 0 1.019 0.128 0.062 0.065 0.065 0 1.024 0.044 0.055 0.044 -4 0.039 0.044 0.041 0.044 0.055 0.044 -4 0.039 0.044 0.041 0.044 0.055 0.044 -5 0.055 0.060 0.055 0.034 0.023 -6 0.055 0.060 0.055 0.034 0.023 -7 0.052 0.057 0.061 0.043 0.027 -8 0.035 0.032 0.033 0.024 0.025 -7 0.052 0.057 0.061 0.043 0.027 -8 0.035 0.032 0.033 0.024 0.025 -7 0.052 0.057 0.061 0.043 0.027 -1 0.027 0.021 0.021 0.022 0.017 -1 0.023 0.016 0.016 0.017 0.024 0.022 -1 0.017 0.024 0.027 0.025 0.020 -1 0.019 0.025 0.026 0.023 -1 0.017 0.024 0.027 0.025 0.020 -1 0.019 0.025 0.028 0.026 0.018 -1 0.017 0.024 0.027 0.022 0.017 -1 0.014 0.018 0.017 0.011 0.024 -1 0.014 0.018 0.017 0.022 0.020 -1 0.014 0.018 0.017 0.011 0.009 -1 0.018 0.018 0.015 0.011 0.009							
-9 0.033 0.020 0.016 0.014 0.016 -8 0.043 0.027 0.024 0.020 0.018 -7 0.047 0.039 0.032 0.027 0.024 -6 0.052 0.046 0.040 0.044 0.044 -5 0.039 0.050 0.068 0.082 0.074 -4 0.079 0.131 0.165 0.136 0.077 -3 0.159 0.216 0.183 0.105 0.048 -2 0.134 0.139 0.096 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.045 0 1.019 0.128 0.062 0.056 0.045 0 1.019 0.128 0.062 0.065 0.065 1 0.748 0.148 0.108 0.114 0.086 2 0.114 0.076 0.095 0.115 0.002 3 0.044 0.041 0.044 0.055 0.044 4 0.039 0.044 0.046 0.039 0.023 5 0.055 0.060 0.055 0.034 0.023 6 0.055 0.073 0.069 0.042 0.025 7 0.052 0.057 0.061 0.043 0.027 8 0.035 0.032 0.033 0.024 0.025 9 0.035 0.032 0.033 0.024 0.025 9 0.035 0.032 0.033 0.024 0.025 11 0.023 0.016 0.016 0.016 0.017 10 0.027 0.021 0.021 0.022 0.017 11 0.023 0.016 0.016 0.016 0.021 0.022 12 0.017 0.024 0.027 0.025 0.026 15 0.021 0.024 0.027 0.025 0.020 14 0.019 0.025 0.028 0.026 0.018 15 0.021 0.024 0.027 0.025 0.020 16 0.017 0.024 0.027 0.025 0.020 17 0.014 0.018 0.017 0.013 0.015 18 0.017 0.022 0.024 0.019 0.023 17 0.014 0.018 0.017 0.013 0.015 18 0.014 0.018 0.017 0.013 0.015 19 0.018 0.018 0.015 0.015 0.014		<u></u>	0.017	0.018_	0.023	0.024	
-9 0.033 0.020 0.016 0.014 0.016 -8 0.043 0.027 0.024 0.020 0.018 -7 0.047 0.039 0.032 0.027 0.024 -6 0.052 0.046 0.040 0.044 0.044 -5 0.039 0.050 0.068 0.082 0.074 -4 0.079 0.131 0.165 0.136 0.077 -3 0.159 0.216 0.183 0.105 0.048 -2 0.134 0.139 0.096 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.045 0 1.019 0.128 0.062 0.056 0.045 0 1.019 0.128 0.062 0.065 0.065 1 0.748 0.148 0.108 0.114 0.086 2 0.114 0.076 0.095 0.115 0.002 3 0.044 0.041 0.044 0.055 0.044 4 0.039 0.044 0.046 0.039 0.023 5 0.055 0.060 0.055 0.034 0.023 6 0.055 0.073 0.069 0.042 0.025 7 0.052 0.057 0.061 0.043 0.027 8 0.035 0.032 0.033 0.024 0.025 9 0.035 0.032 0.033 0.024 0.025 9 0.035 0.032 0.033 0.024 0.025 11 0.023 0.016 0.016 0.016 0.017 10 0.027 0.021 0.021 0.022 0.017 11 0.023 0.016 0.016 0.016 0.021 0.022 12 0.017 0.024 0.027 0.025 0.026 15 0.021 0.024 0.027 0.025 0.020 14 0.019 0.025 0.028 0.026 0.018 15 0.021 0.024 0.027 0.025 0.020 16 0.017 0.024 0.027 0.025 0.020 17 0.014 0.018 0.017 0.013 0.015 18 0.017 0.022 0.024 0.019 0.023 17 0.014 0.018 0.017 0.013 0.015 18 0.014 0.018 0.017 0.013 0.015 19 0.018 0.018 0.015 0.015 0.014	•			0.014			
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-7 0.047 0.039 0.032 0.027 0.024 -6 0.052 0.046 0.040 0.044 0.044 -5 0.039 0.050 0.068 0.082 0.074 -4 0.079 0.131 0.165 0.136 0.077 -3 0.159 0.216 0.183 0.105 0.048 -2 0.134 0.139 0.096 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.065 0 1.019 0.128 0.062 0.065 0.060 1 0.748 0.148 0.108 0.114 0.086 2 0.114 0.076 0.095 0.115 0.082 3 0.044 0.041 0.044 0.055 0.044 4 0.039 0.044 0.046 0.039 0.028 5 0.055 0.039 0.044 0.046 0.039 0.028 5 0.055 0.073 0.069 0.042 0.023 6 0.055 0.073 0.069 0.042 0.023 6 0.055 0.057 0.061 0.043 0.027 8 0.035 0.032 0.033 0.024 0.027 8 0.035 0.032 0.033 0.024 0.020 9 0.035 0.026 0.023 0.018 0.017 10 0.927 0.021 0.021 0.022 0.017 11 0.023 0.016 0.016 0.021 0.022 12 0.017 0.016 0.017 0.021 0.022 13 0.017 0.024 0.027 0.025 0.020 14 0.019 0.025 0.028 0.026 0.018 15 0.021 0.024 0.027 0.025 0.020 16 0.017 0.024 0.027 0.025 0.020 17 0.014 0.018 0.017 0.013 0.015 18 0.017 0.024 0.027 0.022 0.020 19 0.018 0.017 0.014 0.019 0.023 17 0.014 0.018 0.017 0.013 0.015 18 0.014 0.018 0.017 0.011 0.009 19 0.018 0.018 0.015 0.011 0.009	=						
-6							
-5							
-4 0.079 0.131 0.165 0.136 0.077 -3 0.159 0.216 0.183 0.105 0.048 -2 0.134 0.139 0.096 0.056 0.039 -1 0.274 0.077 0.066 0.056 0.045 0 1.019 0.128 0.062 0.065 0.066 1 0.748 0.148 0.108 0.114 0.086 2 0.114 0.076 0.095 0.115 0.082 3 0.044 0.041 0.044 0.055 0.044 4 0.039 0.044 0.046 0.039 0.028 5 0.055 0.060 0.055 0.034 0.023 6 0.055 0.060 0.055 0.034 0.023 6 0.055 0.060 0.055 0.034 0.023 8 0.035 0.032 0.033 0.044 0.027 8 0.035 0.032 0.033 0.024 0.020 9 0.035 0.026 0.023 0.018 0.017 10 0.927 0.021 0.021 0.022 0.017 11 0.023 0.016 0.016 0.016 0.021 0.022 12 0.017 0.016 0.017 0.021 0.022 13 0.017 0.016 0.017 0.021 0.024 13 0.017 0.024 0.027 0.025 0.026 14 0.019 0.025 0.028 0.026 0.018 15 0.021 0.024 0.027 0.025 0.020 14 0.019 0.025 0.028 0.026 0.018 15 0.021 0.024 0.027 0.025 0.020 16 0.017 0.024 0.027 0.022 0.023 17 0.014 0.018 0.017 0.011 0.009 19 0.018 0.018 0.015 0.015 0.014							
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11 0.023 0.016 0.016 0.021 0.022 12 0.017 0.016 0.017 0.021 0.024 13 0.017 0.024 0.027 0.025 0.020 14 0.019 0.025 0.028 0.026 0.018 15 0.021 0.024 0.027 0.022 0.020 16 0.017 0.022 0.024 0.019 0.023 17 0.014 0.018 0.017 0.013 0.015 18 0.014 0.017 0.014 0.011 0.009 19 0.018 0.018 0.015 0.015 0.014	10	0-027	0-021	0-021	0-022	0-017	
12 0.017 0.016 0.017 0.021 0.024 13 0.017 0.024 0.027 0.025 0.020 14 0.019 0.025 0.028 0.026 0.018 15 0.021 0.024 0.027 0.022 0.020 16 0.017 0.022 0.024 0.019 0.023 17 0.014 0.018 0.017 0.013 0.015 18 0.014 0.017 0.014 0.011 0.009 19 0.018 0.018 0.015 0.015 0.014 20 0.016 0.018 0.018 0.021 0.020		7.7					
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16 0.017 0.022 0.024 0.019 0.023 17 0.014 0.018 0.017 0.013 0.015 18 0.014 0.017 0.014 0.011 0.009 19 0.018 0.018 0.015 0.015 0.014 20 0.016 0.018 0.018 0.021 0.020	14		0.025	0.028	0.026	0.018	
17 0.014 0.018 0.017 0.013 0.015 18 0.014 0.017 0.014 0.011 0.009 19 0.018 0.018 0.015 0.015 0.014 20 0.016 0.018 0.018 0.021 0.020	15		0.024	0.027	- 0.022	0-020	
18 0.014 0.017 0.014 0.011 0.009 19 0.018 0.018 0.015 0.015 0.014 20 0.016 0.018 0.018 0.021 0.020	16	0.017	0.022	0.024	0.019_	0.023	
19 0.018 0.018 0.015 0.015 0.014 20 0.016 0.018 0.018 0.021 0.020	17	0.014					
20 0.016 0.018 0.018 0.021 0.020							
	19	0.018	0.018	0.015	0.915	0.014	
	20	0.016	0.018	0.018	0.021	0-020	
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21 12 14 14 14 14	HOOD I	GRID N	gad die des auf der der dit een van nat in nat ook wiel e	-116-		
	CORRECTED	SPECTRUM.	(F-STAR)	and the second section of the sectio	••••••••••••••••••••••••••••••••••••••	
gant and the second	10	11	12	13	14	make appear about a party of the party of th
-20	0.014	0.015	0.019	0.020	0.019	
-19	0.015	0.013	0.014	0.020	0.020	
_18	0.017	0.011	0.010	0.015	0.016	en e
-17	0.019	0.014	0.012	0.013	0.012	
16_	0.015	0.014	0.012	0.011	0.011	
-15	0.010	0.014	0.016	0.013	0.01.1	
14	0.014	0.018	0.019	0.013	0.011	
-13	0.020	0.023	0.016	0.011	0.010	•
12_	0.021	0.022	0.015	0.011	0.009	
-11	0.019	0.018	0.015	0.014	0.011	
-10	0.019	0.017	0.015	0.013	0.014	
9	0.018	0.019	0.017	0.016	0.022	
8	0.019	0.020	0.022	0.031	0.045	
7	0.025	0.024	0.027	0.051	0.072	
-6	0.043	0.034	0.029	0.041	0.053	
	0.058	0.036	0.023	0-024	0.030	
-4	0.045	0.029	0.021	0.021	0.023	
3	0.034	0.031	0.028	0.022	0.019	
-2	0.032	0.030	0.026	0.019	0.019	
1	0.036	0.033	0.030	0.024	0.028	
o_	0.058	0.041_	0.033	0.035	0.039	
1	0.067	0.036	0.023	0.030	0.030	
2	0.054	0.028	0.017	0.022	0.02,3	
3	0.030	0.023	0.017	0.018	0.021	
4	0.020	0.017	0.013	0.013	0.017	
5	0.019	0.014	0.011	0.012	0.015	
6_	0.018	0.012	0.012	0.016	0.019	
7	0.016	0.014	0.015	0.018	0.024	
8	0.017	0.018	0.019	0.020	0.028	
9	0.023	0.027	0.026	0.025	0.026	
10	0.022	0.032	0.034	0.029	0.026	
11_	0.020_	0.026	0.032	0.028	0.026	-
12	0-024	0.022	0.025	0.027	0.028	
13	0.026	0.029	0.024	0.026		
14	0.021	0.028	0.022	0.022	0.022	
15	0.019	0.017	0.014	0.014		
16	0.025	0.017	0.012	0.013	0.013	
17_	0.020	0.019_	0.015_	0.014	0.014	May as well because the foreign a
18	0.011	0.014	0.016	0.015	0.014	
19_	0-012	0.013	0.015	0.014	0.012	
20	0.014	0.014	0.017	0.016	0.012	

	HOOD 1 GRID N	-114-
	CORRECTED SPECTRUM. (F-STAR)	in the second se
	20	
-20	0,013	
-19	0.013	கூறு இது இது இது இது இது இது இது இது இது இத
-18	0.012	
-17	0.012	
16_	0.011	
-15	0.011	
-14	0,013	,
-13	0.015	*
-12	0.013	,
-11	0.015	
-10	0.018	
-9	0.014	•
-8	0.018	
-7	0.020	· · · · · · · · · · · · · · · · · · ·
-6	0.014	
-5	0.013	
-4	0.013	
-3	0.015	
-2	0.015	
-1	0.024	
T-A	•	**************************************
0_	0.036	
1	0.025	
2	0.018	
3	0.024	•
4	0.026	
5	0.015	
6	0.014	
7	0.017	
. 8	0.020	
9	0.018	
10	0.020	
11	0.024	
11 12	0.021	
13		
14	0.013	
15		,
16	0.018	***************************************
17	0.021	
18	0.019	
19		
	Y.Q.Y.A.V	# * * * * * * * * * * * * * * * * * * *
20_	0.014	
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بالماري فيتريضه فيصفينه بمتاكات

1). 311

	H000 2	GRID 0		-1	.19-
	CORRECTED	SPECTRUM.	(F-STAR)		entre de la company de la comp
	0	1	2	3 7	Maria A
-20	0.004	0.003	0.003	0.002	0.002
	0.004	0.003	0.003	0.002	0.002
-18	0.004	0.003	0.003	0.003	0-002
		0.003	0.003	0.003	0.004
-16	0.003	0.003	0.003	0.004	0.004
=15_	0.004	0.003	0.003	0.003	0-004
-14	0.004	0.003	0.002	0.003	0.003
13_	0.003	0.002	0.002	0.003	0.003
-12	0.002	0.002	0.003	0.003	0.003
=11_	0.003	Q.003	0.003	0.004	0.004
	0.003	0.003	0.003	0.004	0.005
-9	0.003	0.003	0.004	0.006	0.007
8_	0.003	0.004	0.005	0.007	0.010
-7	0.004	0.005	0.005	0.008	0.011
	0.005	0.006	0.006	0.008	0.013
-5	0.006	0.007	0.006	0.009	0.015
-4.	0.008	0.008	0.005	0.008	0.014
-3	0.014	0.014	0.013	0.012	0.012
	0.088	0.097	0.045	0.020	0.011
-1	2.279	0.906	0.131	0.030	0.015
0		2.905	0.158	0-032	0.018
1_	2-279	0.384	0.073	0.925	0.013
2	0.088	0.047	0.024	0.016	0.009
3	0.014	0.014	0.010	0.010	0.007
4	0.008	0.008	0.007	0.007	0.005
5	0.006	0.006	0.006	0.005	0.004
6	0.005	0.005	0.005	0.004	0.004
7	0.004		0.003	0.003	0.004
· 8	0.003	0.003	0.003	0.003	0.004
9	0.003	0-003	0-004	0.003	0.003
10	0.003	0.003	0.004	0.003	0.002
11	0.003	0.003	0.003	0.002	0.002
12	0.003	0_003	0.003	0.002	0.002
13	0.003	0.003	0.003	0.002	0.002
14	0.004	0.004	0.003	0.002	0.002
15	0-004	0.004	0.003	0.002	0.002
16	0.003	0.004	0.003	0.002	0.002
17	0.004	0.004	0.003	0.003	0.003
18_	0.004	0.024	0.003	0.002	0.003
19	0.004	0.005	0.004	0.002	0.003
20	0.004	0.005	0.004	0.003	0.002

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	HOOD .2	GRID O	·	**************************************	-120-
	ORRECTED	SPECTRUM.	LE-STAR)		
·	5	6			*
20	0.002		0.003	0.003	0.003
-19	0.003	0.003	0.003	0.002	0.003
18	0.004	0.004	0.003	0.002	0.003:
-17	0.004	0.004	0.003	0.003	0.004
16	0.004	0.003	0.004	0.004	0.004
-15	0.004	0.004	0.004	0.004	0.004
14	0.005	0.004	0.004	0.004	0.005
-13	0.004	0.004	0.005	0.005	0.006
<u>-12</u> -11	0.003 0.003	0.003	0.004	0.005	0.006
-14	U	0.002	0.003	0.004	0.005
-10	0.004	0.003	0.003	0.004	0.005
9	0.006	0.006	0.005	0.005	0.006
-8	0.009	0.008	0.007	0.006	0.005
?	0.011	0.012	0.012	0.008	0.007
-6 -5	0.017	0.018	0.014	0.009	0.007
	0.024	0.020	0.010	0.007	0.006
_ - 3	0.018 0.009	0.011	0.005	0.005	0.005
	0,008	0.007	0.006 0.008	0.007	0.006
<u>-ī</u>	0.010	0.008	0.009	0.009 0.009	0.008 0.008
_					
0	0.012	0.008	0.008	0.009	0.007
1 2	0.008 0.005	0.005 0.004	0.005 0.004	0.006	0.005
3	0.005	0.004	0.004	0.004 0.004	0.004
4	0.003	0.003	0.003	0.003	0.004 0.005
5	0.003	0.002	0.003	0.004	0.004
6	0.003	0.003	0.003	0.004	0.004
7	0.004	0.003	0.003	0.004	0.004
8	0.004	0.003	0.003	0.003	0.003
9	0.003	0.003	0.002	0.003	0.003
10	0.003	0.003	0.003	0.003	0.003
11	0.003	0.003	0.003	0.004	0.009
12	0.002	0.002	0.003	0.003	0.003
13	0.002	O.00Z	0.002	0.002	0.003
14	0.002	0.002	0.002	0.003	0.003
_15	0.002	0.002	0.002	0.003	0.002
16	0.003	0.002	0.002	0.003	0.003
	0.003	0.003	0•;002	0.003	0.003
18	0.003	0.003	0-002	0-002	0.003
19	.0.003	0.002	0.002	0.002	0.003
20	0.002	0.002	0.702	0.002	0.003
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	H000 2	GRID O		-121-	The second secon
,	CORRECTED	SPECTRUM,	(F-STAR)	e ntillingsmengemente verve, ven linnerstrutten	a is a Militaria - quan eer a ingerengga atoring pagapapagagagagagagagagagagagagagagaga
5-400-00, erê-400 day dir. aa aa aa aa aa ab aa	10	11	12	13	14
-20	0.002	0.002	0.003	0.003	0.004
	0.003	0.003	0.003	0.003	0.004
-18	0.004	0.004	0.003	0.003	0.003
-17_ -16	0 <u>_004</u> 0 <u>_004</u>	0.004 0.004	0-003 0-004	0.002 0.003	0.002 0.003
-15	O_005	0.005	0.005	0.003	0. 003
-14	0.005	0.006	0.006	0.005	0.003
13	0.007	0.008	0.008	0.006	0.004
-12	0.008	0.008	0.009	0.008	0.005
	0.006	0.006	0.008	0.009	0.007
	0.005	0.005	0.006	0.007	0.008
-9	0.005	0.004	0.004	0.006	0.007
	0.004	0.003	0.004	0.004	0.005
-7	0.005	0.003	0.003	0.003	0.004
_6	0.005	0.004	0-004	0.003	0.003 0.003
-4	0.003 0.004	0-004 0-004	0.005 0.005	0.004 0.005	0.004
	0.006	0.005	0.004	0.004	0.004
-2	0.007	0.005	0.005	0.004	0.003
-1	0.006	0.005	0.006	0-004	0.003
. 0	0.004	0.004	0.005	0.005	0.004
	0.005	0.004	0.003	0.003	0.004
2	0.005	0.005	0.003	0-003	0.004
	0.005	0.005	0.003	0.003	0.003
-	0.005 0.004	0.004 0.003	0.003 0.002	0.002 0.002	0.003
	0-004	0.004	0.003	0.002	0•003 0•003
Ž	0-006	0.005	0.003	0.002	0.002
8	0.004	0.004	0.003	0.002	0.003
9	0.003	0.003	0.003	0.002	0.002
10	0.003	0.003	0.003	0.002	0.002
11	0.003	0.003	0.003	0.002	0.002
12	0-003	0.003	0.003	0.002	0.002
13	0.002	0.002	0.002	0.002	0.002
14	0.003	0.003	0.003 0.004	0.002	0.002 0.003
15 16	0.003 0003	0_004	0.004 0.004	0•003 0•003	0.003
17	0.003	0.003	0.003	0.003	0.002
is	0_003	0_003	0.003	0.003	0.003
19	0.004	0.004	0.004	0.003	0.002
20	0-004	0.004	0.004	0.003	0.002

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	HUOD _2.	_ GRID O	agaza	12	 2-
	CORRECTED	SPECTRUM.	E-STAR)		A CONTRACTOR OF THE PROPERTY O
	15	16	17	18	19 ,
-20	0.004	0.004	0.004	0.005	0.004
-19	0.004	0.004	0.004	0.004	0.004
-18	0.003	0.003	0.003	0.003	0.004
-17	0.002	0.003	0.003	0.003	0.003
-16	0.003	0• 003	0.003	0.003	0.004
-15	0.003	0.003	0.003	0-004	0.004
-14	0,003	0.003	0.003	0.003	0.004
-13	0.004	0.003	0.003	0.003	0.003
-12	0.004	0.003	0.002	0.002	0.002
-11	0.004	0.002	0.002	0.003	0.002
-10	0.005	0.004	0.004	0.003	0.003
-9 9	0.005	0.005	0.005	0.003	0.002
-8	0-004	0.004	0.004	0.003	0.003
-7	0.003	0.003	0.003	0.003	0.003
-6	0.003	0.004	0.004	0.003	0.002
-5	0.003	0.005	0.005	0.003	0.002
-4	0.004	0.003	0.003	0.003	0.004
-3	0.004	0.003	0.003	0.004	0.005
-2	0-004	0.004	0.003	0.005	0.005
1	0.004	0.004	0.004	0.004	0.007
0	0.003	0.004	0.004	0.005	0.012
1	0.003	0.003	0.004	0.004	0.008
2	0.003	0.003	0.003	0.003	0.004
3	0.003	0.003	0.002	0.003	0.004
Ĭ.	0.003	0.002	0.002	0.002	0.003
	0.003	0.002	0.002	0.003	0.003
6	0.004	0.002	0.002	0.004	0.004
7	0.003	0.002	0.003	0.003	0.003
Ř	0.003	0.003	0.003	0.003	0.002
9	0.002	0.003	0.004	0.003	0.002
10	0.003	0.004	0.004	0.003	0.002
.ii	0.003	0.004	0.004	0.003	0.002
12	0.002	0.003	0.003	0.003	0.003
. 13	0.002	0.002	0.002	0.002	0.003
14	0.002	0.002	0.002	0.003	0.003
_15	0.003	0.003	0.003	0.003	0.003
16	0.003	0.003	0.003	0.002	0.002
	0.003	0.003	0.002	0.002	0.002
18	0.003	0.002	0.003	0.003	0.002
. 19	0.002	0.003	Q.003	0.003	0.003
20	0.002	0-003	0.003	<u>. 0.003</u>	0.003

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	HOOD 2 GRID O	-123-
	CORRECTED SPECTRUM, (F-S	TAR)
	20	
-20	0.003	
19_	0.003	
-18 17	0.004 0.004	
-16	0.004	######################################
15	0.005	
-14	0.005	
<u>-13</u> _	0.003	
-12 -11	0.002	·
		······································
10	0.002	
-9	0.002	
8 -7	0.002 0.002	
-6	0.002	•
-5	0.003	
4	0.005	· · · · · · · · · · · · · · · · · · ·
-3.	0.006	
<u>-2</u> -1	0.004 0.011	·
0	0.020	
i	0.012	
2	0.005	
3	0.004	
5	0.003 0.003	
3 6	0-003	
7	0_002	
8	0.002	
9	0.002	
10	0.002	
11	0.003	,
12	0. ^03	
13 14	0.003 	
15	0.004	
16	0.003	
17	0.002	
18	Q_002	
19	0.003	
20	0.003	

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	CORRECTED.	SPECTRUM-	(F-STAR)		The state of the s
	0	1	2	3	4
-20	0.006	0.005	0-004	0.004	0.005
19_	0.006	0.005_	0.005	0.005	0.005
-18	0.008	0.007	0.005	0.005	0.005
17_	0.009	0.010	0.009	0.008	0.007
-16	0.008	0.009	0.010	0.010	0.010
.=15_	0.007	0.009_	0.010	0.010	0.012
-14	0.008	0.008	0.009	0.012	0.014
_ - 13_ -12	0.013 0.020	0.012_ 0.015	0.010	0.013 0.011	0.013
-11	0.025	0.013	0.010	0.011	0.010 0.013
				,U•,OI+	
10_	0.034	0.026	0.025	0.024	0.020
-9	0.044	0.043	0.042	0.032	0.025
	0.058	0.059	0.057	0.049	0.035
-7	0.095	0.091	0.094	0.086	0.060
	0.109	0.107	0.097	0.080	0.067
-5 -4	0.099 0.123	0.094	0.081 0.127	0.070 0.114	0.068
	0.223	0.123 0.195	0.220	0.199	0.089 0.124
-2	0.818	0.415	0.333	0.272	0.186
-1	12.616	2.548	0.689	0.425	0.270
		11.042	0.811	0 701	
0 1_	12.616	3.320	0.543	0.381 9.254	0.263 0.181
<u>-</u> 2	0.818	0.824	0.394	0.194	0.127
3	0.223	0.300	0.236	0.141	0.023
4	0.123	0.147	0.138	0.097	0.071
5_	0.099	0.120	0.130	0.106	0.068
6	0.109	0.120	0.116	0.093	0.064
7	0.095	0.097	0.084	0.075	0.061
8	0.058	0.056	0.056	0.061	0.050
9_	0.044	0.047	0-042	0.045	0.036
10	0.034	0.039	0.033	0.030	0.024
11	0.025	0.026	0.023		0.016
12_	0.020	0.018		0.014	
13	0.013	0.012	0.011	0.011	0.012
14_	0.008	0.008	0.008	0.010	0.010
15	0.007	0.005	0.007	0.009	0.009
16_	0.008	0.006	0.008	0.008	0.007
17	0.009	0.007	0.008	0.008	0.007
18	0.008	0.009	0.009	0.009	0.008
19	0-006	0.008	800	0.007	0.008
20	0.006	0.007	0.007	0.008	0.008

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		POLK 1	GRID P.		-12	25-
		CORRECTED	SPECTRUM.	(F-STAR)	and the second	1999 A. S. 185
		5	6		8	9
	-20	0.005	0.005	0.006	0.005	0.005
	-19	0.005	0.006	0.006	0.005	0.005
	-18_	0.007	0.008	0.006_	0.004	0.005
	-17	0.007	0.009	0.008	0,005	0.006
	-16	0.011	0.010	0.008	0-006	0.007
	-15	0.012	0.009	0.006	0.005	0.006
	-14	0.012	0.008	0.007	0.005	0.004
	-13	0.011	0.008	0.007	0.006	0.005
	_12	0.010	0.009	0.008	0.006	0.007
•	-11	0.011	0.012	0.012	0.009	0.009
	-10	0.016	0.015	0.014	0.011	0.010
	_9	0.018	0-018	0.016	0.013	0.010
	-8	0-026	0.027	_ 0.022	0.015	0.013
	7	0.043	0.036	0.023	0.017	0.015
	-6	0.052	0.041	0.026	0.023	0.019
	5	0.062	0.055	0.041	0.036	0.029
•	-4	0.075	0.070	0.054	0.040	0.033
	<u>-3</u>	0-073	0.068	0.052	0.032	0.028
•	-2 -1	0.104 0.151	0.066 0.078	0.041	0.028	0.028
		0.151	0.010	0.045	0.037	0.035
	0	0-164	0.088	0.051	0.045	0.044
	1	0.129	0.084	0.057	0.052	0.042
	2	0.086	0.060	0-052	0.051	0.038
	3	0.063	0.044	0.045	0.048	0.037
	4	0.060	0.050	0.048	0.041	0.026
	5	0.050	0.048	0-041	0.023	0-012
	6	0.043	0.033	0-027	0.017	0.010
	7	0.037	0.023	0.020	0-017	0.015
	8	0.031	0.021	0.016	0.013	0-014
	9	0.026	0.018	0-015	0.010	0.010
	10	0.022	0.017	0.014	0.009	0-007
	11	0-020	0.018	0.012	0.009	0-007
	12	0.015	0.015	0.009	0.007	0.007
	13	0.010	0.009	0.006	0.006	0.007
	14 15	0.007	0.007	0-007	0.007	0.008
	16	0.007 0.007	0.008 0.009	0.009 0.009	0.006	0.005
	17	0.007	0.009	0.007	0.006 0.006	0.005 0.006
	18	0.008	0.008	0.006	0.005	0.005
	<u> </u>	0.008	0.007	0.005	0.004	0.004
	20					
	£.V	0.007	0.006	0.005	0.004	0.005

	POLK 1	GRID F	-	-	126-	
	CORRECTED :	SPECTRUM,	(F-STAR)		A	
	10	11	12	13	14	
-20	0.004	0.004	0.005	0.006	0.006	
	0.005	0.005	0.006	0.006	0.006	
-18	0.006	0.005	0.006	0.007	0.006	
-17	0.006	0.005	0•005	0.007	0•008	
-16	0.006	0.005	0.005	0.007	0. 006	
15	<u>0.006</u>	0.004	0.005	0•006	0.005	
-14	0.005	0.005	0.005	0.006	0.006	
	<u> </u>	0.007	0.006	0.006	0.007	
-12	0.007	0.007	0.007	0.008	0.009	
	0.010	0.009	0.008	0.008	0.009	
-10	0.011	0.011	0.009	800.0	0.008	
-9	0.010	0.009	0.008	0.008	0.009	
	0.013	0.010	0.008	0.008	0.009	
-7	0.013	0.011	0.009	0.008	0.010	
<u>-6</u>	0.012	0.011	0.011	0.009	0.011	
. -5	0.018	0.016	0.016	0.011	0.009	
-4	0.026	0.021	0.020	0.014	0.009	
- 3	0.025	0.019	0.015	0.012	0.008	
	<u>0.028</u>	0.020	0.013	0.013	0.012	
1	0.037	0.028	0.020	0.020	0.017	
0	0.040	0.035	0.029	0.026	0.019	
11	0-032	0.028	0.028	0.025	0.017	
2	0.025	0.018	0.016	0.016	0.015	
3	0.027	0.019	0.011	0.011	0.013	
4	0.018	0.015	0.010	0.010	0.010	
5	0.011	0.010	0.009	0.009	0.008	.
· <u>6</u>	0.012	0.014	0.011	0.008	0.008	
	0.016	0.015	0.011	0.008	0.008	
8	0.014	0.011	0.008	0.008	0.009	
9	0.011	0-010	0.007	0.008	0.009	
10			0.007			
11	800.0	0.011	0.008	0.006	0.006	
12	0.006	0-007	0.009	0.009	0.008	
13	0.006	0.005	0.007	0.008	0.007	
14	0.007	0.006	0.007	<u> </u>	0.006	
15	0.006	0.007	0.006	0.005	0.004	
16	0.005	0.005	0.005	0.004	0.004	
17	0.005	0.005	0.005	0.005	0.096	
18	0.004	0.004	0.005	0.005	0.005	
19	0.004	0.005	0.006	0.005	0.005	
20	0.005	0.005	0.006	0.005	0.005	•

	POLK 1	GRID P			-127-
	CORRECTED	SPECTRUM,	(F-STAR)	· · · · · · · · · · · · · · · · · · ·	
	15	16	17	18	19
-20	0.005	0.004	0.005	0.007	0.007
	0.005	0.004	0.005	0.006	0.006
-18	0.005	0.004	0.004	0.005	0.006
-17	0.006	0.005	0.004	0.005	0.007
-16	0.006	0.006	0.007	0.007	0.007
-15	0.005	0.006	0.008	0.009	0.008
-14	0.005	0.006	0.008	0.009	800.0
-13	0.006	0.006	0.007	0.009	0.008
-12	0.008	0.005	0.006	0.007	0.007
	0.007	0.006	0.007	0.007	0.006
10	0.006	0.006	0.007	0.007	0.006
-9	0.008	0.007	0.006	0.006	0.006
-8	0.008	0.007	0.006	0.006	0.007
-7	0.009	0.008	0.008	0.009	0.009
-6	0.011	0.009	0.010	0.012	0.012
- 5	0.010	0.009	0.008	0.010	0.011
-4	0.009	0.008	0.007	9.008	0.009
-3	0.008	0.008	0.007	0.009	0.011
-2	0.011	0.011	0-009	0.010	0.013
-1	0.015	0.018	0.016	0.016	0.027
0	0.015	0.022	0.022	0.021	0.040
11	0.014	0.018	0.019	0.018	0.028
2	0.013	0.013	0.014	0.014	0.014
3	0.012	0.009	0.010	0.010	0.011
4	0.011	0.009	0.008	0.007	0.007
5	0.010	0.010	0.008	0.007	0.006
6	0.010	0-011	0.009	0.009	0.009
7	0.010	0.010	0.009	0.010	0.010_
8	0.009	0.008	0.008	0.011	0.009
<u> </u>	0.010	0,009	0.007	0.008	0.008
10	0.010	0.010	0.006	0.005	0.007
11	0.008	0.009	0.007	0.005	0.006
12	0.006	0.006	0.007	0.007	0.006
13 -	0.006	0.007	0.007	0.006	0.005
14_	0.006	0.007	0.007	0.006	0.006
15	0.005	0.005	0.006	0.006	0.006
16	0.004	0.005	0.006	0.007	0.007
17	0.005	0.005	0.007	0.007	0.006
18	0.006	0.006	0.006	0.005	0.006
19	0.006	0.006	0.006	0.005	0.006
20	0.006	0.006	0.006	0.005	0.006

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	POLK 1 GRID P	-128-	
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لــــــ	CORRECTED SPECTRUM. (E-STAR)		
	20		
	•		
20			
-19	0.006		
	0.007		
-16			
-15	0.006	## ## ## ## ## ## ## ## ## ## ## ## ##	
-14			•
-13	0.007	1	
12	0.007		
-11	0.006		
-10	0.005		
-9	0.004		
-8	0.007		
-7	0.010		
-6	0.013		
-5			
-4 -3	0.009 0.012		
- 2	0.016		
-1	0.947		
	·		
0	0.081	**************************************	
1	0.047	•	
2	0,017	**************************************	
3	0.012 0.008		
	0.006		
6	0.007		
7	0.008		
8	<u>0.006</u>		
9	0.006		
10	0.007		
11	0.007		
12	0.006		
13	0.006		
14	0.006	•	
15	0.006		
16	0.007	,	•
17 18	0.006		
19			
A.Z			•
20	0.006		
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CORRECTED SPECTRUM, (F-STAR) 0 1 2 3 4 -20 0.016 0.014 0.017 0.016 0.014 -19 0.015 0.013 0.018 0.017 0.014 -18 0.012 0.010 0.016 0.017 0.018 -17 0.010 0.010 0.016 0.017 0.020 -16 0.013 0.015 0.018 0.015 0.014 -15 0.014 0.016 0.018 0.015 0.014 -15 0.014 0.016 0.018 0.016 0.015 -14 0.013 0.014 0.017 0.015 0.018 -13 0.016 0.018 0.018 0.015 0.015 -12 0.024 0.033 0.032 0.023 0.017 -11 0.052 0.066 0.065 0.043 0.025 -10 0.035 0.108 0.098 0.066 0.046 -9 0.084 0.130 0.128 0.090 0.006 -8 0.099 0.156 0.174 0.143 0.091 -7 0.150 0.190 0.185 0.157 0.095 -6 0.309 0.301 0.188 0.127 0.108 -5 0.595 0.632 0.349 0.151 0.116 -4 0.979 1.079 0.597 0.231 0.122 -2 7.340 4.250 0.739 0.222 0.124 -2 7.340 4.250 0.739 0.255 0.163 -1 63.870 12.869 0.828 0.377 0.221 0 35.836 1.144 0.441 0.265 1 63.870 12.869 0.828 0.377 0.261 0 35.836 1.108 0.491 0.413 0.137 5 0.595 0.254 0.143 0.149 0.113 6 0.309 0.150 0.663 0.316 0.162 1 63.870 12.869 0.828 0.377 0.261 0 35.836 1.108 0.450 0.201 3 2.305 1.308 0.663 0.316 0.162 4 0.979 0.472 0.285 0.713 0.112 7 0.400 3.098 0.150 0.099 7 0.150 0.076 0.065 0.074 0.076 8 0.099 0.051 0.048 0.054 0.067 0.041 11 0.052 0.036 0.036 0.038 0.043 0.033 12 0.024 0.021 0.024 0.022 13 0.014 0.015 0.014 0.015 0.017 15 0.014 0.015 0.014 0.013 0.013 16 0.013 0.013 0.013 0.013 0.013		POLK 2	GRID Q	en permenenta carra ne e e e e e e e e e e e e e e e e e e		-129-
-20		CUBBECTED	COECTOIM	/F-STAP1		
-20		- WONECLED	aren inunt	J. J. AR.		The second secon
-19		0	1	2	3	4
-19	-20	0.016	0.014	0.017	0.016	0-014
-18						
-17	-18		0.010	0.016	0.019	0.018
-16						0.020
-15					0.015	0.014
-14						
-13			,			
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	POLK 2	GRID Q	·		-130-	
	CORRECTED	SPECTRUM.	(F-STAR)	*	e for a common common and a common security of the common security o	
	5	. 6	7	8	9	rime elli.
-20	0.013	0.008	0.006	0.007	0.007	
19_	0.013	0.008	0.006	0.007	0.007	
-18	0.016	0.010	0.005	0.008	0.009	
	0.020	0.012	0.008	0.011	0.012	
-16	0.016	0.013	0.012	0.015	0.015	
	0.017	0.016	0.014	0.017	0.019	
-14	0.019	0.016	0.015	0.019	0.019	
	0.017_	0.019	0.020	0.023	0.022	
-12	0.018	0.022	0.021	0.027	0.030	
	0.019	0.019	0.020	0.031	0.034	
	0.034	0.026	0.024	0.030	0.029	
-9	0.049	0.044	0.045	0.037	0.028	
8	0.057	0.062	0.060	0-047	0.037	
-7	0.069	0.071	0.068	0.050	0.042	
	0.096	0.090	0.067	0.044	0.044	
-5	0.106	0.098	0.065	0.043	0.050	
	0.101	0.083	0.074	0.071	0.071	
-3	0.120	0.100	0.085	0.080	0.078	
	0.146	0.123	880•0	0.074	0.073	
-1	0.158	0.125	0.094	0.080	0.077	
0	0.131	0.100	0.076	0.069	0.070	
1_	0.106	0.086	0.059	0.064	0.064	
2	0.144	0.106	0.068	0.074	0.073	
3	0.133	0.100	0.066	0.064	0.067	
4	0.121	0.097	0.072	0.063	0.064	
5	0.105	0.103	0.080	0.065	0.056	
6	0.092	0.089	0.061	0.048	0.041	
7 .		n• 077	(• • • 1	0.041_	0.039	
8	0.060	0.063	0.049	0.035	0.032	
9	0.035	0.042	0•043	0.029	0.019	
10	0.027	0.029	0.033	0.027	0.016	1
11	0.025	0.023	0.025	0.024	0.018	
12_	0.019	0.018	0.020	0.022	0.018	
13	0.018	0.017	0.019	0.022	0.019	*** *** *
14_	0.015	0.014	0.017	0.018	0.017	
15	0.012	0.011	0.013	0.015	0.013	
16	0.009	0.008	0.012	0.014	0.011	
17	0.008	0.007	0.008	0.009	0.007	***
18	0.007	0.006	0.006	0.006	0.005	
19	0.009	0.007	0.007	0.008	0.005	
20	0.012	0.008	0.009	0.010	0.006	

	POLK 2	GRID Q	e procession and the same		L-
	CORRECTED	SPECTRUM.	(F-STAR)		p *
	10	11	12	13	14
20	0.007	0.007	0.006	0.006	0.005
-19		0.007	0.006	0.006	0.005
		0.008_	0.007	0.006	0.005
-17		0.009	0.008	0.007	0.006
		0.012	0.010	0.009	0.007
-15		0.013	0.010	0.008	0.007
-14		0.017	0.013	0.008	0.007
-13		0.020	0.013	0.010	0.008
-12		0.025	0.015	0.011	0.008
-11		0.024	0.014	0.017	0.011
-11	10.030	0.024	0.010	0.017	0.011
-10	0.024	0.023	0.023	0.023	0.017
-9	0.021	0.025	0.028	0.024	0.020
-8	0.026	0.039	0.043	0.026	0.018
	0.037	0.053	0.057	0-030	0.020
-6	0.048	0.059	0.060	0.034	0.024
-5	0.062	0.065	0.051	0.032	0.023
-4	0.100	0.092	0.046	0.025	0.020
	0.103	0.092	0.043	0.021	0.018
-2	0.068	0.053	0.031	0.018	0.019
	0.055	0.036	0.024	0.019	0.022
0	0.050	0.032	0.026	0.023	0.025
1		0.028	0.028	0.030	0.034
2		0.035	0.027	0.027	0.036
3		0.042	0.026	0.021	0.027
4	1	0.045	0.031	0.020_	0.020
5		0.043	0.039	0.022	0.015
Ğ	1	0.030	0.033	0.018	0.011
7		0.024	0.027	0.018	0.012
8		0.023	0.022	0.015	0.014
9	0.019	0.025	0.022	0.014	0.013
	0.012	0.010	0.021	0.013	0.010
10		0.019	0.021		0.009
11	0.012	0.016	0.016	0.010 0.011	0.004
12		0.014 0.013	0.013	0.011	0.012
13	0.015				0.012
14	0.013	0.009	0.008	0.009	
15	0.008	0.007	0.008 0.006	0.010	0.010
16	0.007	0.006	0.005	0.008	0.007
17	0.006	0.006	0.005	0.005	0.007
18	0.005	0.005	0.005	0.005	0.006
19	0.004	0.005	0•,000		
20	0.004	0.005	0.005	0.005	0.005
<u></u>	Y Y Y Y Y				

	POLK 2	GRID Q	and the second s		-132-	
piglionia villa la la respecta de la respecta della respecta della respecta de la respecta della	CORRECTED S	PECTRUM.	(F-STAR)	The second se	The section of the se	en man en
	15	16	17	18	19	energia de la composição
-20 -19	0.006 0.005	0.005 0.004	0.004 0.004	0.004 0.005	0.004	
-18	0.004	0.004	0.005	0.006	0.005 0.007	distribution of the second of
-17	0,005	0.005	0.006	0.006	0.007	
-16	0.007	0.006	0.007	0.006	0.008	
-15	0.006	0.006	0.007	0.007	0.010	
-14 -13	0.006 0.007	0.006 0.007	0.007	0.009	0.012	:
-12	0.008	0.009	0.009	0.012 0.016	0.015 0.018	
-11	0.010	0.012	0.012	0.016	0.017	() () () () () () () () () ()
	the second of th					
-10	0.015	0.015	0.019	0.021	0.015	
-9	0.021	0.019	0.025	0.028	0.015	
	0.021	0.020	0.025	0.024	0.016	
-7	0.020	0.021	0.026	0.021	0.015	
-6 -5	0.022	0.026	0.031	0-020	0.012	
-4	0•02 4 0•025	0.030 0.029	0.029 0.026	0.016 0.016	0.012 0.014	
- 3	0.021	0.023	0.023	0.015	0.013	
-2	0.022	0.023	0.020	0.014	0.016	
-1	0.026	0.023	0.018	0.016	0.024	
0	0.024	0.019	0.016	0.019	0.025	
1	0.023	0.015	0.014	0.019	0.022	
2	0.025	0.016	0.013	0.016	0.017	
3_	0.022	0.018	0.015	0.018	0.015	
4 5	0.017 0.014	0.018 	0.018 0.022	0.021 0.021	0.015	
6	0.013	0.018	0.020	0.017	0.016 0.015	
7	0.013	0.014	0.016	0.015	0.019	
8.	0.013	0.011	0.011	0.010	0.012	
9_	0.013	0.011	0.011	0.010	0.015	
	0.010				0.018	
11	0.007	0.008	0.009	0.010	0.019	
1213	0.009 0.011	0.011 0.013	0.010 0.011	0.011 0.012	0.017	
14	0.012	0.013	0.010	0.012	0.016 0.011	
15	0.012	0.012	0.008	0.008	0.008	
16	0.010	0.009	0.006	0.006	0.006	•
17	0.011	0.009	0.005	0.005	0.006	
18	0.010	0.009	0.006	0.005	0.005	
19	0.008	0.008	0.006	0.005	0.004	•
20	0.007	0.008	0.006	0.004	0.003	·•
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	and a second of the second of		er ere	، بود او محافظه ا
••••	POLK 2 GRID	Q ,, <u> </u>	-13	33-
	CORRECTED SPECTRU	M, (F-STAR)		
	20			
				and the second section of the section of the second section of the section of the second section of the section of th
	0.004			difference with the first court and our court court and the court court court court court court court court court.
-19	0.005			
	0.007			
-17 -16	0.007 0.009			
-15	0.011	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
-14	0.013			
-13	0.013	·	4 T C C 4 4 4 4 4 7 7 7 4 4 4 4 4 4 4 4 4 4	that we will not the face that was the two way to a sure of the side of the side of the side.
-12	0.015			
-11	0.014			
-10	0.011			
-9 -8	0.010 0.014			· ************************************
-0 -7	0.014			
-6	0.015		· · · · · · · · · · · · · · · · · · ·	
-5	0.014			
-4	0.014			
-3	0.013			
-2	0.018		•	
1_	0.026			
0	0.026			
1	0.026 0.019			-
2	0.014	·		
3	0.012			
4	0.012			
5	0.015	. 1		
6_	0.018	****	,	
. 7	0.018			
9	0.016 0.020			**************************************
7	,000			
10	0.024			T
11_	0.024			-
12	0.019			
13	0.016			·
14	0.011		•	
15	0.007			
16 17	0.005 0.006			
18	0.006			THE SECRET SECTION AND ADDRESS
19	0.004	· · · · · · · · · · · · · · · · · · ·		
				The state of the s
` 20	0.003			

	POLK 2	GRID Q	and the section of th		-132-	
	ORRECTED	SPECTRUM.	(F-STAR)		The second secon	
	15	16	17	18	19	
20	0.006	0.005	0.004	0.004	0.004	
9	0.005	0.004	0.004	0.005	0.005	
8.	0.004	0.004	0.005	0.006	0.007	į.
7	0,005	0.005	0.006	0.006	0.007	
6	0.007	0.006	0.007	0.006	0.008	
5		0.006	0.007	0.007	0.010	
4	0.006	0.006	0.007	0.009	0.012	
3	0,007	0.007	0.007	0.012	0.015	
2	0.008	0.009	0.009	0.016	0.018	•
1	0.010	0.012	0.012	0.016	0.017	
0	0.015	0.015	0.019	0.021	0.015	
9	0.021	0.019	0.025	0.028	0.015	
-8	0.021	0.020	0.025	0.024	0.016	
7	0.020	0.021	0.026	0.021	0.015	
6	0.022	0.026	0.031	0.020	0.012	
5	0.024	0.030	0.029	0.016	0.012	
4	0.025	0.029	0.026	0.016	0.014	
3	0.021	0.023	0.023	0.015	0.013	
2	0.022	0.023	0.020	0.014	0.016	-
1	0.026	0.023	0.018	0.016	0-024	
0	0.024	0.019	0.016	0.019	0.025	
1	0.023	0.015	0.014	0.019	0.022	
2	0.025	0.016	0.013	0.016	0.017	
3	0.022	0.018	0.015	0.018	0.015	
4	0.017	0.018	0.018	0.021	0.015	
5	0.014	0.019	0.022	0.021	0.016	
6	0.013	0.018	0.020	0.017	0.015	
.7	0.013	0.014	0.016	0.015	0.014	
8	0.013	0.011	0.011	0.010	0.012	
9	0.013	0.011	0.011	0.010	0.015	
١٥	0.010	0.009	0.010	0.011	0.018	
11	0.007	0.008	0.009	0.010	0.019	
12	0.009	0.011	0.010	0.011	0.017	
13	0.011	0.013	0.011	0.012	0.016	
4	0.012	0.013	0.010	0.010	0.011	
5	0.012	0.012	0.008	0.008	0.008	1
6	0.010	0.009	0.006	0.006	0.006	
7	0.011	0.009	0.005	0.005	0.006	
8	0.010	0.009	0.006	0.005	0.005	
9	0.008	0.008	0.006	0.005	0.004	
0	0.007		0.006			

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	POLK 2 GRID Q	-133-	was to the second
	CORRECTED SPECTRUM. (F-	STAR)	· .
**********	20		and the second s
-20_	0.004		
-19 -18_	0.005 0.007		
-17 -16	0.007	1	B. A.
-15	0.009 0.011		
-14 -13	0.013 0.013		
<u>-</u> 12_	0.015		
-11	0.014		
-10 -9	0.011 0.010		
-8	0.014		
-7 -6	0.018 0.015		
	0-014		·
<u>-3</u>	0.014 0.013		Paga aga air 198 da
-2 -1	0.018 0.026		
0			
1	0.026 0.019		
23	0.014 0.012		
4	0.012		
5 6	0.015 0.018		all respected the first transport and the same
7 8	0.018 	•	
9	0.020		
10	0.024	ب بری در داد در بازی در داد به داد از ۱۳۵۰ می در در داد داد ۱۳۵۰ می در پی در پیشان در این و پیشان و پیشان به ب	
11 12	0.024 0.019		
13 14	0.016 0.011		
15	0.007		
16 17	0.005 0.006	•	
18	0.006		and the second second second
19	0.004	***************************************	ggr upp yang 44 m
20	0,003		

	•		_

250 F 1 15 1

-20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.009 0.009 0.008 0.008 0.010 0.011 0.008 0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337 9.161	SPECTRUM. 1	(F-STAR) 2	3 	0.006 0.007 0.007 0.009 0.010 0.011 0.008 0.009 0.012 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009	
-19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.009 0.008 0.008 0.010 0.011 0.008 0.006 0.005 0.007 0.008 0.007 0.009 0.012 0.021 0.051 0.051	0.008 0.007 0.008 0.010 0.010 0.007 0.007 0.006 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.020 0.028 0.090	0.009 0.008 0.008 0.010 0.010 0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.008 0.007 0.009 0.010 0.010 0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.007 0.007 0.009 0.010 0.011 0.008 0.009 0.012 0.009 0.009 0.008 0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.008 0.008 0.010 0.011 0.008 0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.007 0.008 0.010 0.010 0.007 0.007 0.006 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090 0.561	0.008 0.008 0.010 0.010 0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.008 0.007 0.009 0.010 0.010 0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.007 0.007 0.009 0.010 0.011 0.008 0.009 0.012 0.009 0.009 0.008 0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.008 0.008 0.010 0.011 0.008 0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.007 0.008 0.010 0.010 0.007 0.007 0.006 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090 0.561	0.008 0.008 0.010 0.010 0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.008 0.007 0.009 0.010 0.010 0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.007 0.007 0.009 0.010 0.011 0.008 0.009 0.012 0.009 0.009 0.008 0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.008 0.010 0.011 0.008 0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.008 0.010 0.010 0.007 0.007 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090	0.008 0.010 0.010 0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.007 0.009 0.010 0.010 0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.007 0.009 0.010 0.011 0.008 0.009 0.012 0.009 0.009 0.008 0.009 0.009 0.010 0.020 0.027 0.041	
-17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 -1 -0 -1 -2 -3 -7 -6 -7	0.010 0.011 0.008 0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.010 0.010 0.007 0.007 0.007 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090	0.010 0.010 0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.009 0.010 0.010 0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.009 0.010 0.011 0.008 0.009 0.010 0.012 0.009 0.009 0.008 0.009 0.010 0.020 0.027	
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 -1 0 1 2 3 4 5	0.011 0.008 0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.010 0.007 0.007 0.007 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090	0.010 0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.010 0.010 0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.010 0.011 0.008 0.009 0.012 0.012 0.009 0.008 0.009 0.008 0.009 0.020 0.027 0.041	
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 -1 -1 -1 -7 -7 -7 -8 -7 -7 -7 -7 -7 -8 -7 -7 -7 -7 -7 -8 -7 -7 -7 -7 -8 -7 -7	0.008 0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.007 0.007 0.007 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090	0.008 0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.010 0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.011 0.008 0.009 0.010 0.012 0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 -1 -1 -1 -7 -7 -7 -6 -7 -7	0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.007 0.007 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090 0.561	0.008 0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.008 0.008 0.009 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.008 0.009 0.010 0.012 0.009 0.008 0.009 0.010 0.020 0.027	
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.006 0.005 0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.007 0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090	0.008 0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.008 0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.009 0.010 0.012 0.009 0.009 0.008 0.009 0.010 0.020 0.027	
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7	0.005 0.008 0.006 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.006 0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090 0.561	0.007 0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.008 0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.010 0.012 0.009 0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 -1 -1 -7 -7 -7	0.007 0.008 0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.006 0.005 0.007 0.011 0.016 0.020 0.028 0.090 0.561	0.008 0.007 0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.009 0.007 0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.012 0.009 0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.006 0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.005 0.007 0.011 0.016 0.020 0.028 0.090 0.561	0.005 0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5	0.007 0.009 0.012 0.021 0.051 0.135 0.337	0.007 0.011 0.016 0.020 0.028 0.090 0.561	0.007 0.011 0.017 0.023 0.036 0.059 0.119	0.006 0.007 0.009 0.012 0.019 0.024 0.035 0.093	0.009 0.008 0.009 0.010 0.020 0.027 0.041	
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6	0.009 0.012 0.021 0.051 0.135 0.337	0.011 0.016 0.020 0.028 0.090 0.561	0.011 0.017 0.023 0.036 0.059 0.119	0.009 0.012 0.019 0.024 0.035 0.093	0.008 0.009 0.010 0.020 0.027 0.041	
-6 -5 -4 -3 -2 -1 -0 1 -2 3 4 5	0.012 0.021 0.051 0.135 0.337	0.016 0.020 0.028 0.090 0.561	0.017 0.023 0.036 0.059 0.119	0.012 0.019 0.024 0.035 0.093	0.010 0.020 0.027 0.041 0.027	
-5 -4 -3 -2 -1 -0 1 -2 3 4 5	0.021 0.051 0.135 0.337	0.020 0.028 0.090 0.561	0.023 0.036 0.059 0.119	0.019 0.024 0.035 0.093	0.020 0.027 0.041 0.027	. ,
-4 -3 -2 -1 -0 1 2 3 4 5	0.051 0.135 0.337	0.028 0.090 0.561	0.036 0.059 0.119	0.024 0.035 0.093	0.027 0.041 0.027	
-3 -2 -1 -0 1 2 3 4 5	0•135 0•337	0.090 0.561	0.059 0.119	0.035 0.093	0.041 0.027	
-2 -1 0 1 2 3 4 5	0.337	0.561	0.119	0.093	0.027	
0 1 2 3 4 5	9.161	4.211	0.577	0.257	7 70E	
1 2 3 4 5 6					0.085	
1 2 3 4 5 6		30.978	4.637	1.771	0.564	
2 3 4 5 6	9.161	10.024	4.763	3.367	1.615	
3 4 5 6	0.337	0-844	1.033	1.285	1.055	
5 6 7	0.135	0.126	0.192	0.176	0.209	
6 7	0.051	0.045	0.065	0.068	0.083	1
7	0.021	0.018	0.023	0.029	0.040	
	0.012	0.010	0.009	0.013	0.019	
A	0.009	0.009	0.007	0.008	0.009	
	0.007	0.006	0.006	0.007	0.009	
9	0-006	0.007	0.007	0.006	0.006	
	0.008	0.009	0.007	0.007	0.007	
11	0.007	0.008	0.007	0.006	0.007	
	0.005	0.006	0.005	0.005	0.009	,
	0.006	0.005	0.004	0.004	0.007	
	0.006	0.006	0.005	0.005	0.005	
	800.0	0.003	800.0	0.007	0.006	
	0.011	0.011	0.009	0.008	0.008	
	0.010	0.008	0.007	0.007	0.007	
	800.0	0.006	0.006	0.008	0.009	
19	0.008	0.007	0.007	0.008	0.008	. •
20	0.009	0.010	0,008	0.006	0.007	

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	BENNIN	G 1 GRID	R		135-
,	CORRECTED	SPECTRUM.	(F-STAR)	. + 12, + 5 €	
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-2(0.004	0.006	0.009	0-008
		0.005	0.003	0.004	0.006
-18		0.005	0.006	0.009	0.007
		0.008	0.006	0.005	0.006
-16		0.011	0.013	0.016 0.020	0.013 0.023
		0.014	0.015 0.015	0.018	0.019
-14		0.012	0.009	0.018	0.019
13		0.010	0.009	0.010	0.009
-12		0.008 0.008	0.008	0.008	0.008
=11	0.011	V • U U			
	0.009	0.008	0.009	0.012	0.009
-9		0.009	0.005	0.005	0.007
		0.009	0.011	0.012	0.010
-7		0.012	0.010	0.007	0.007
	0.012	0.014	0.014	0.013	0.009
-5	0.021	0-018	0.009	0.005	0.005
	0.022	0.024	0.019	0.016	0.010
-3	0.044	0.031	0.016	0.012	0.012
		<u> </u>	0.027	0.021	0.016
-1	0.051	0.024	0.023	0.013	0-014
0	0.144	0.058	0.037	0.028	0.020
1	1.166	0.765	0.251	0.091	0.036
2	1.654	1.473	0.807	0.579	0.250
3	0.497	0.591	0.627	0.718	0.426
4	0.070	0.055	0.112	0.188	0.187
5	0a039	0.035	0.031	0.029	0.035
6		0.027	0.024	0.019	0.016
7	Q-008	0.013	0.018	0.019	0.015
8		0.010 0.011	0.008 0.011	0-006 0-012	0.010 010
	0-008	UAULL			
10	0-011	0.010	0.006	0.005	0.007
11	0.008	0.008	0.010	0.011	0.009
12	0.010	800.0	0.006	0.004	0.005
13	0.097	0.008	0.009	0.009	0.007
14		0.007	0.005	0.005	0.007
15		0.007	0.010	0.011	0.009
16	0.008	Q;01Q	0.009	0.007	0.007
17		0.010	0.013	0.012	0.008
18		0.011	0.008	0•006 0•009	0.005
. 19	0.007	0.007	0.008	0.009	U
20	0-007	0.006	0.004	0-005	0.010

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	CORRECTED	SPECTRUM.	(F-STAR)	The state of the s	and the state of t
	10	1i	12	13	14
20	0.008	0.006	0.006	0.008	0.008
-19	0.007	0.006	0.006	0.007	2.008
18	0.005	0.005_	0.006	0.006	0.006
-17.	0.009	0.009	0.007	0.005	0.004
-16	0.008	0.006	0.006	0.005	0.006
-15	0.015	0.008	0.007	0.007	0.007
-14	0.014	0.008	0.008	0.007	0.006
-13	0.011	0.011	0.009	0.007	0.006
-12_	0.009	0.009	0.009_	0.008	0.007
-11.	0.010	0.010	0.008	0.007	0.009
-10	0.006	0.007	0.008	0.009	0.011
9	0.009	0.008	0.009	0.010	0.011
) —ġ	0.006	0.005	0.007	0.009	0.008
7	0.007	0.008	0.007	0.067	0.007
-6	0.006	0.007	0.007	0.007	0.006
	0.009	0.010	0.008	0.006	0.005
-4	0.008	0.008	2.009	0.007	0.006
3	0.012	0.011	0.011	0.009	0.008
-2	0.009	0.010	0.011	0.012	0.011
1	0.013	0.014	0.013	0.014	0.013
0	0.019	0.017		0.020	0.017
· 1	0.024	0.017	0.019	0.018	0.019
Z	0.085	U_044	0.023	0.014	0.014
3	0.266	0.177	0.077	0.043	0.023
4		0.191	0.130	0-102	0.058
5	0.055	0-065	0.076	0.078	0.060
6	0.020	0.025	0.032	0.035	0.035
7	0.012	0.013	0.018	0.019	0.019
8	0.013	0.011	0.012	0.012	0.010
9	0.008	0.007	0.008	0.010	0.008
10	0.010	0.010	0.010	0.008	0.006
11	0.005	0.005	0.010	0.009	0.007
12	0.007	0.007	0-005	0.005	0.006
13	0. CO5	0.004	0.003	0.004	0.005
14	0.010	0.009	0.006	0.005	0.006
_15	0.008	0.007	0.006	0.007	0.007
16	0.007	0.006	0.005	0.006	0.008
17	0.004	0.003	0.004	0.005	0.006
18	0.006	0.005	0.005	0.004	0.005
19	0,006	0.005	0.005	0.005	0.006
20	0.010	0.007	0.006	0.007	0.007

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CORRECTED SPECTRUM, (F-STAR)	7				<u></u>			
15			BENNIN	G 1 GRID	R		-137-	
15]		CORRECTED	SPECTRUM.	(F-STAR)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*
-19	1		15	16	17			a mini
-19	5	-20	0.007	0.008	0.008	0.006	0-005	Marcon Marco And Spec 24
7. —17	<u></u>		800.0		0.008		.t	
-16 0.006 0.006 0.006 0.006 0.005 1-15 0.006 0.006 0.006 0.004 0.004 -14 0.007 0.006 0.005 0.004 0.004 1-13 0.007 0.007 0.007 0.006 0.005 0.005 1-12 0.010 0.009 0.009 0.008 0.007 1-11 0.013 0.013 0.013 0.013 0.014 1-10 0.013 0.012 0.013 0.016 0.018 1-9 0.012 0.011 0.012 0.014 0.014 1-8 0.010 0.011 0.012 0.014 0.014 1-8 0.010 0.011 0.011 0.012 0.012 1-7 0.008 0.009 0.008 0.009 0.009 1-5 0.005 0.007 0.007 0.007 0.007 0.005 1-3 0.006 0.006 0.006 0.007 0.007 0.005 1-3 0.006 0.006 0.006 0.007 0.007 0.005 1-1 0.014 0.015 0.018 0.013 0.011 0 0.016 0.016 0.015 0.014 0.013 1 0.018 0.018 0.012 0.011 0 0.016 0.016 0.015 0.014 0.013 1 0.018 0.009 0.009 0.009 0.009 1 0.0016 0.016 0.015 0.014 0.013 1 0.018 0.018 0.012 0.012 0.008 1 0.015 0.017 0.009 0.009 0.009 1 0.006 0.006 0.006 0.007 0.005 1 0.015 0.017 0.009 0.009 0.009 1 0.006 0.006 0.007 0.007 0.009 1 0.006 0.006 0.007 0.007 0.009 1 0.006 0.006 0.007 0.009 0.009 1 0.006 0.006 0.007 0.009 0.009 1 0.006 0.006 0.007 0.009 0.009 1 0.006 0.006 0.007 0.009 0.009 1 0.006 0.006 0.007 0.009 0.009 1 0.006 0.006 0.007 0.009 0.009 1 0.006 0.006 0.006 0.007 0.009 1 0.006 0.006 0.007 0.009 0.009 1 0.006 0.006 0.005 0.007 0.009 1 0.006 0.006 0.005 0.005 0.006 1 0.006 0.006 0.005 0.005 0.006 1 0.006 0.006 0.006 0.005 0.006 1 0.006 0.006 0.006 0.005 0.006 1 0.007 0.006 0.006 0.005 0.005 1 0.007 0.006 0.005 0.005 0.006 1 0.007 0.006 0.005 0.005 0.006 1 0.007 0.006 0.005 0.005 0.005 1 0.007 0.006 0.005 0.005 0.005 1 0.007 0.006 0.005 0.005 0.005 1 0.007 0.006 0.005 0.005 0.005 1 0.007 0.006 0.005 0.005 0.005							197	
-15	7							Primerata en 114 - 1
-14							•	
-13								
	1						•	
-10						•		
-9 0.012 0.011 0.012 0.014 0.014 -8 0.010 0.011 0.011 0.012 0.012 -7 0.008 0.009 0.010 0.010 0.012 -6 0.007 0.008 0.008 0.009 0.009 -5 0.005 0.007 0.007 0.007 0.007 0.006 -4 0.005 0.006 0.006 0.006 0.007 0.005 -2 0.011 0.008 0.011 0.007 0.005 -2 0.011 0.008 0.011 0.007 0.007 -1 0.014 0.015 0.018 0.013 0.011 0 0.016 0.016 0.016 0.015 0.014 0.013 -1 0.018 0.018 0.012 0.012 0.008 -2 0.015 0.017 0.009 0.009 0.005 -3 0.017 0.010 0.009 0.009 0.005 -3 0.017 0.010 0.009 0.009 0.005 -5 0.054 0.046 0.031 0.017 0.009 0.016 -5 0.054 0.046 0.031 0.017 0.019 -5 0.054 0.046 0.031 0.017 0.019 -5 0.054 0.046 0.031 0.017 0.019 -5 0.006 0.006 0.006 0.005 0.005 -7 0.020 0.028 0.024 0.017 0.009 0.015 -8 0.010 0.016 0.015 0.017 0.009 0.015 -1 0.006 0.004 0.005 0.007 0.009 -1 0.005 0.004 0.005 0.007 0.009 -1 0.006 0.004 0.005 0.006 0.006 -1 0.006 0.006 0.006 0.006 0.006 -1 0.005 0.006 0.006 0.005 0.005 -1 0.006 0.006 0.006 0.005 0.005 -1 0.006 0.006 0.006 0.005 0.006 -1 0.005 0.006 0.006 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.005 -1 0.006 0.005 0.006 0.005 0.005 -1 0.006 0.005 0.006 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.006 0.006 -1 0.005 0.006 0.005 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.005 -1 0.006 0.005 0.006 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.006 0.006	19		0.013	0.013	0.013	0.013	0,014	
-9 0.012 0.011 0.012 0.014 0.014 -8 0.010 0.011 0.011 0.012 0.012 -7 0.008 0.009 0.010 0.010 0.012 -6 0.007 0.008 0.008 0.009 0.009 -5 0.005 0.007 0.007 0.007 0.007 0.006 -4 0.005 0.006 0.006 0.006 0.007 0.005 -2 0.011 0.008 0.011 0.007 0.005 -2 0.011 0.008 0.011 0.007 0.007 -1 0.014 0.015 0.018 0.013 0.011 0 0.016 0.016 0.016 0.015 0.014 0.013 -1 0.018 0.018 0.012 0.012 0.008 -2 0.015 0.017 0.009 0.009 0.005 -3 0.017 0.010 0.009 0.009 0.005 -3 0.017 0.010 0.009 0.009 0.005 -5 0.054 0.046 0.031 0.017 0.009 0.016 -5 0.054 0.046 0.031 0.017 0.019 -5 0.054 0.046 0.031 0.017 0.019 -5 0.054 0.046 0.031 0.017 0.019 -5 0.006 0.006 0.006 0.005 0.005 -7 0.020 0.028 0.024 0.017 0.009 0.015 -8 0.010 0.016 0.015 0.017 0.009 0.015 -1 0.006 0.004 0.005 0.007 0.009 -1 0.005 0.004 0.005 0.007 0.009 -1 0.006 0.004 0.005 0.006 0.006 -1 0.006 0.006 0.006 0.006 0.006 -1 0.005 0.006 0.006 0.005 0.005 -1 0.006 0.006 0.006 0.005 0.005 -1 0.006 0.006 0.006 0.005 0.006 -1 0.005 0.006 0.006 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.006 -1 0.005 0.006 0.005 0.005 0.005 -1 0.006 0.005 0.006 0.005 0.005 -1 0.006 0.005 0.006 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.006 0.006 -1 0.005 0.006 0.005 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.005 -1 0.006 0.005 0.006 0.005 0.005 -1 0.006 0.006 0.005 0.005 0.006 0.006		-10	0-013	0.012	0.013	0-016	0-018	
-8 0.010 0.011 0.011 0.012 0.012 -7 0.008 0.009 0.010 0.010 0.012 -6 0.007 0.008 0.009 0.009 0.009 0.009 -5 0.005 0.007 0.007 0.007 0.007 0.006 -4 0.005 0.007 0.007 0.007 0.007 0.005 -3 0.006 0.006 0.006 0.006 0.007 0.007 0.007 0.007 0.005 -2 0.011 0.008 0.011 0.007 0.007 0.007 -1 0.014 0.015 0.018 0.013 0.011 0.007 0.009 0.005	!;							
-6 0.007 0.008 0.008 0.009 0.009 -5 0.005 0.007 0.007 0.007 0.006 -4 0.005 0.007 0.007 0.007 0.005 -3 0.006 0.006 0.006 0.006 0.005 -2 0.011 0.008 0.011 0.007 0.007 -1 0.014 0.015 0.018 0.013 0.011 0 0.016 0.016 0.015 0.018 0.013 0.011 0 0.018 0.018 0.012 0.012 0.008 2 0.015 0.017 0.009 0.009 0.005 3 0.017 0.010 0.009 0.007 0.009 4 0.039 0.024 0.017 0.009 0.007 5 0.054 0.044 0.031 0.017 0.014 6 0 0.037 0.041 0.033 0.025 0.026 7 0.020 0.028 0.024 0.015 0.018 0.022 8 0.010 0.016 0.016 0.015 0.009 0.019 9 0.006 0.006 0.007 0.009 0.003 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.005 0.007 0.009 12 0.006 0.006 0.005 0.006 0.006 13 0.006 0.006 0.005 0.006 0.006 14 0.006 0.006 0.005 0.006 0.006 15 0.006 0.006 0.005 0.006 0.006 17 0.006 0.006 0.006 0.005 0.006 0.006 18 0.007 0.006 0.005 0.006 0.005 17 0.006 0.005 0.006 0.005 0.006 0.006 18 0.007 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.006 0.006	12						· .	
-5 0.005 0.007 0.007 0.007 0.006 -4 0.005 0.007 0.007 0.005 0.007 0.007 0.005 0.007 0.007 0.005 0.005 0.007 0.007 0.005 0.005 0.006 0.006 0.006 0.007 0.005 0.005 0.007 0.007 0.005 0.005 0.001 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.001							*	
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-3 0.006 0.006 0.006 0.007 0.005 -2 0.011 0.008 0.011 0.007 0.007 -1 0.014 0.015 0.018 0.013 0.011 0 0.016 0.016 0.015 0.014 0.013 1 0.018 0.018 0.012 0.012 0.008 2 0.015 0.017 0.009 0.009 0.005 3 0.017 0.010 0.009 0.007 0.009 4 0.039 0.024 0.017 0.009 0.007 5 0.054 0.046 0.031 0.017 0.014 6 0.037 0.041 0.033 0.025 0.026 7 0.020 0.028 0.024 0.017 0.010 0.012 9 0.006 0.006 0.005 0.006 0.005 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.005 0.006 0.006 13 0.006 0.004 0.005 0.006 0.006 14 0.006 0.006 0.006 0.005 0.006 15 0.006 0.006 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.006 0.006 0.005 0.005 0.005 18 0.007 0.006 0.005 0.006 0.005 19 0.006 0.006 0.005 0.006 0.005 0.006								
-2 0.011 0.008 0.011 0.007 0.007 -1 0.014 0.015 0.018 0.013 0.011 0 0.016 0.016 0.015 0.014 0.013 1 0.018 0.018 0.012 0.012 0.908 2 0.015 0.017 0.009 0.009 0.005 3 0.017 0.010 0.009 0.007 0.009 4 0.039 0.024 0.017 0.009 0.010 5 0.054 0.046 0.031 0.017 0.014 6 0.037 0.041 0.033 0.025 0.026 7 0.020 0.028 0.024 0.018 0.022 8 0.010 0.016 0.015 0.010 0.012 9 0.006 0.006 0.007 0.009 0.013 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.005 0.007 0.009 12 0.006 0.004 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.007 0.006 0.006 15 0.006 0.006 0.007 0.006 0.006 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.006 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.005 18 0.005 0.006 0.005 0.006 0.006	4							
0 0.016 0.016 0.015 0.014 0.013 1 0.018 0.018 0.012 0.012 0.708 2 0.015 0.017 0.009 0.009 0.005 3 0.017 0.010 0.009 0.007 0.009 4 0.039 0.024 0.017 0.009 0.010 5 0.054 0.046 0.031 0.017 0.014 6 0.037 0.041 0.033 0.025 0.026 7 0.020 0.028 0.024 0.018 0.022 8 0.010 0.016 0.015 0.010 0.012 9 0.006 0.006 0.007 0.009 0.013 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.005 0.007 0.008 12 0.006 0.004 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.006 0.006 0.006 0.006 15 0.006 0.006 0.006 0.006 0.006 0.005 16 0.007 0.006 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.006 0.005 0.005	5							
1		-1	0.014	0.015	0.018	0.013	0.011	
1	·		0.014	0 014	0.015	0 014	0 012	
2 0.015 0.017 0.009 0.009 0.005 3 0.017 0.010 0.009 0.007 0.009 4 0.039 0.024 0.017 0.009 0.010 5 0.054 0.046 0.031 0.017 0.014 6 0.037 0.041 0.033 0.025 0.026 7 0.020 0.028 0.024 0.018 0.022 8 0.010 0.016 0.015 0.010 0.012 9 0.006 0.006 0.007 0.009 0.013 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.004 0.004 0.005 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.007 0.006 0.006 15 0.006 0.006 0.006 0.006 0.006 16 0.006 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.005 18 0.005 0.006 0.005 0.006 0.006 19 0.006 0.006 0.005 0.006 0.006		ĭ						
4 0.039 0.024 0.017 0.009 0.010 5 0.054 0.046 0.031 0.017 0.014 6 0.037 0.041 0.033 0.025 0.026 7 0.020 0.028 0.024 0.018 0.022 8 0.010 0.016 0.015 0.010 0.012 9 0.006 0.006 0.007 0.009 0.013 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.005 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.006 0.006 0.006 15 0.006 0.006 0.006 0.006 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.006 18 0.005 0.006 0.005 0.006 0.006 19 0.006 0.006 0.005 0.006 0.006	/	2						
5		3		0.010	0.009	0.007	0.009	
6 0.037 0.041 0.033 0.025 0.026 7 0.020 0.028 0.024 0.018 0.022 8 0.010 0.016 0.015 0.010 0.012 9 0.006 0.006 0.007 0.009 0.013 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.005 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.007 0.006 0.006 15 0.006 0.006 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.005 17 0.006 0.005 0.006 0.006 0.006 18 0.007 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.006 0.006		*						
7 0.020 0.028 0.024 0.018 0.022 8 0.010 0.016 0.015 0.010 0.012 9 0.006 0.006 0.007 0.009 0.013 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.005 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.006 0.006 0.005 15 0.006 0.005 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.005 17 0.006 0.005 0.005 0.006 0.005 18 0.005 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.006 0.006)	2						
8 0.010 0.016 0.015 0.010 0.012 9 0.006 0.006 0.007 0.009 0.013 10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.005 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.006 0.006 0.005 15 0.006 0.005 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.006 18 0.005 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.006 0.005	•	-						
10 0.005 0.004 0.005 0.007 0.009 11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.005 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.006 0.006 0.005 15 0.006 0.005 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.006 0.005 0.006 18 0.005 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.005 0.006		8						1 / 16 / 19
11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.005 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.006 0.006 0.005 15 0.006 0.005 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.005 0.006 0.005 18 0.005 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.005 0.006 20 0.008 0.006 0.005 0.005 0.005	l	9	0.006	0.006	0,007	0.009	0.013	
11 0.006 0.004 0.004 0.005 0.008 12 0.006 0.005 0.005 0.006 0.006 13 0.006 0.006 0.007 0.006 0.006 14 0.006 0.006 0.006 0.006 0.005 15 0.006 0.005 0.006 0.005 0.005 16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.005 0.006 0.005 18 0.005 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.005 0.006 20 0.008 0.006 0.005 0.005 0.005		10	0.005	0 004	0.005	0.007	0.000	
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16 0.007 0.006 0.006 0.005 0.005 17 0.006 0.005 0.005 0.006 0.006 18 0.005 0.006 0.005 0.006 0.006 19 0.007 0.006 0.005 0.005 0.005 20 0.008 0.006 0.004 0.005 0.004								-
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	CORRECTED SPECTRUM. (F-STAR)	
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		Managaman m
-19	0.005	
	0.004	and the state of t
-17	0.004	r
-16 -15	0.005 0.005	
-15 -14	0.003	4
-13	0.004	
-12	0.007	•
-11	0.012	
-11		•
-10	0.016	
-9	0.015	
-8	0.015	
	0.015	•
-6	0.010	
-5		
~4	0.008	· · · · · · · · · · · · · · · · · · ·
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-2	0.004	,
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2_	0.009	
3	0.010	
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8	0.014	•
9	0.013	
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10	0.010	
11	0.009	· · · · · · · · · · · · · · · · · · ·
12	0.006	
13	0.005	
14	0.004	•
15	0.004	
. 16	0.005	
17_	0.005	
18	0.006	
19	0.005	
20	0.004	
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3	BENNI	NG 2 GRID	S	* ************************************	7 -13 9
-	CORRECTED	SPECTRUM,	(F-STAR)	· • • • • • • • • • • • • • • • • • • •	
	0	1	2	3	
-20	0.015	0.015	0.013		The second secon
-19_	0.013_	0.013	0.011	0.011	G.011
-18	0.013	0.015	0.016	0.015	C.011
-17	0.017	0.020	0.024	0.023	C.013
-16	0.023	0.027	0.026	0.024	0.023
-15	0.029	0.030	0.025	0.022	C. 023
-14 -13	0.026	0.030	0.028	G. 024	0.021
-12	0.031	0.036	0.033	C.C27	0.020
-11	0.035	0.035	0.037	0.038	0.030
Unanani Tali	0.033	0.036	0.043	0.046	G-C41
-10	0.037	0.045			
-9	C.041	0.049	0.052	0.051	C-052
-8	C.054	0.052	0.050 0.046	0.053	0.059
-7	C.071	0.059	0.055	0.051	0-056
	0.111	0.092	0.C82	0.057	0.055
-5	0.189	0.156	0.131	0.108	0.069
: - 4	0.419	0.317	0.259	0.201	0-104
-3	1.297	0.867	0.547	0.369	0.148
2	5.172	3.075	1.367	0.661	. C-235 C-327
-1	66.968	17.541	3.122	0.882	0.384
0		72.457	5.157	1.117	C 400
: <u>-</u> <u>1</u> <u></u> -	66.068	22.291	4.882	1. 367	G-490 G-609
Z ,	5.172	4.569	2.774	1.296	C-550
3	1.297	1.333	1.124	0.896	0-473
4	0.419	0.482	0.466	0.463	C-346
5 6	0.139	0.229	0.265	. 0.257	0.220
7	0.111	0.127	0.147	0.148	C. 140
8	0.054		0.083	0.098	0.099
9	0.041	0.050	0.053	0.965	540.0
		_0.038	_0.041	0.040	C.C38
10	0.037	0.035	0.022		ě
. 11	0.033	0.029	0•033 0•025	0.030	C.C38
12	0.035	0.028	0.026	0.029	0.033
13	0.031	0.024	0.024	0.030	0.028
14	0.026	0.021	0.023	0.027 0.025	0.023
15	0.029	0.022	0.021	0.023	0.020
16	0.023	0.015	0.013	9.017	C.019
17	0.017	0.011	0.011	0.015	0.017
18	0.013	_0.009	0.010	0.017	0.716 0.719
19	0.013	0.011	D.G11	0.015	0.016
20	0.015	0.014	0.014	0.914	0.013

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5		BENNING	Z GRID	S		-140-
		CORRECTED S	SPECTRUM,	(F-STAR)	•	•
	100 0 0	15	6	7 7	. 8	9
A	-20	0.012	0.012	0.014	0.016	0.017
n	19	0:011	0.012	0.015	0.017	0.016
	-18	0.011	0.011	0.014	0.018	0.015
C	-17	0.013	0.011	0.014	0.016	0.014
	-16	G:017	0.013	0.016	0.018	0.019
	15	0.020	0.016 _	0.617	0.619	0.021 0.022
,0	-14	0.017 0.018	0.017 C.321	0.024 0.032	0.024	0.026
. ,	-13 -	0.028	0.026	0.032	0.043	0.034
	-12 -11	0.035	0.026	0.028	0.039	0.041
,				04020		000.2
	-10	C.038	0.925	0.034	0.044	0.047
0	-9	0.044	0.035	0.040	0.043	0.046
,	~ 8	0.056	0.047	(,0.043	0.043	0.050
/ 	-7	0.050	C.045	0.048	0.059	0.067
O,	-6	0.066	C.055	0.054	0.070	0.078
	-5	0.098	0.077	0.061	0.066	C.C73
· '	-4	C,114	Q.C95	0.071	0.078	0.103
.0	-3	G:143	. 0.114	0.104	0.111	C.124
; <u></u>	-2	0.179	0.163	0.156	0.128	0.103
0	-1	0.253	0.230	0.181	0.117	C.196
	0	C.305	0.199	0.150	0.142	C.150
	1	0.319	0-169	0.149	0.161	0.160
\circ	2	0.268	G-170 .	0.158	0.152	0.141
,	3	0.219	C.125 _	0.114	C.137	C.156
_	4	0.221	0.124	9.085	0.091	0.112
ک	5	0.188	0.139	0.080	0.361	0.067
•	6	0.124	0.105	0.074	0.058	C.062
ر المراجعة	7	0.073 0.052	0.057	0.059 0.044	0.067 0.056	0.068 0.052
· ·	. 8	0.042	0.042	0.038	0.045	0.039
\sim	10	0.040	0.034	0.032	0.038	0.041
9 ;	31	0	0.025	0-027	0.030	0.034
	12	0.023	0.021	0.026	0.028	V. C26
0,	13	0.040 0.528 0.023 0.019	0.020	0.027		
•	14	0.016	0.018	0.022	0.021	
£1.	15	0.015	0.016	0.218	0.016	0.016
0:,	16	0.016	0.018	0.018	0.013	0.614
- ,, w	17	0.015	0.018	0.017	0.013	0.014
	18	0.016	C.016	0.016	0.014	
	19	0.019 0.016 0.015 0.016 0.015 0.015	0.012	0.012	0.011	0.013
	20	0.012	0.010	0.009	0.009	

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<u> </u>						
• • •		the same of the section of the same of the	-		in in Edward States	
\mathbf{C}^{i}	to contract	BENNING	2 GRID	S		-141-
					e de la companya de La companya de la co	
	,	CORRECTED S	PECTRUM,	(F-STAR)	*	
$-\mathbf{O}$,		and the second section of the section of			المنشجة والمراي المستبدان	22
		10	11	12	. 13	14
·~ ;		A 653			A 600	C.012
, ,	-20	C.013	0.008	0.009 0.016	0.009	C.012
	-19 -18	0.011 0.010	0.010 0.010	C-C11	0.012	0.010
	-17	0.010		0.015	0.C17	0.012
,	-16	0.018	C.015	0.015	0.016	C-015
	-15		0.019 :		0.013	0.017
	-14	0.018	0.017	0.016	0.016	0.020
•	-13	C. 724 ·	0.028	0.027	0.022	0.022
	-12	0.031	0.031	0.028	0.G24	0.020
	-11	0.036	0.033	0.025	0.C22	Q.C20
	, , ,		•		•	
_	-10	0.038	0.026		0.024	
	-9	0.038	0.034	0.038	0.034	0.025
		C.045	0•036	0.039	0.C33	0.C29
_	-7	0.058	0.038	0.031	0.026	0.025
\mathcal{C}		0.058			0.029	
	-5	0.065	0.059	0.048	0.042	0.042
	-4.	0.107	0.098		0.058	0.062
	-3	0.125	0.109	0.768	0.070	G.C78
		0.096	0.093 .	0.076 .	0.084	084
	-1	0.103	0.103	0.102	0.090	0.088
<u> </u>		A 117			0.092	0.095
	0	0.117	0.110 0.107	0.110	0.092	0.095
\sim		0.117	0.135	0.116	0.099	0.090
-	2	0.232	0.320		0.096	C.C96
٠.		0.207	0.329	0.234	0.111	0.092
\bigcirc	5	C.083	0.122	0.103	0.064	0.062
		0.057	0.062	0.046	0.026	0.029
1	7	0.051	0.044		0.C21	0.C22
	8	0.043	0.043	0.038	0.028	6.029
	9	0.033	0.033	0.033	0.025	Q.C23
•				4		•
- O _{:2} ,	10 .	C.041	0.040	0.030	0.016	
	11	C-036	0.037	0.030	0.016	C.C16
_ :. •	12 .	0.027	0 • G 27	0.024	0.017	
\circ			0.014	0.014	0.017	0.019
: •		0.023	0.023	C.O17 .	0.016	
_	15	0.019	0.017	0.014 0.015	C.013	C-C16
\mathcal{O}_{i} .	16 17	0.013	0-014	0.015	0.014	
		0.012	0.011		0.014	
,	18	0.017			0.012	C.011
_	19	0.015	0.018	0.019	0.019	C-018
· .		0.013	0.014	0.021	0.025	0.022
-	20	C.012	0.016	0.021	U+V23	V • V & &
· •				• •	e e e	

<u>.</u>		BENNIN	G 2 GRID	s		-142-
~	romen and proper	CORRECTED	SPECTRUM,	(F-STAR)	west of	
•		15	16	17	18	19
Ü.,	-20 -19	0.014 C.013	0.011	0.009	0-008	0.010
	-18	G.C11	0.013	0.010	0.010 0.015	0.013 0.016
.O.	-17 -16	0.010	0.014	0.016	0.017	0.017
	-15	0.015	0.012 0.011	0.012	C.C14	0.015 0.013
0	-14	0.017	0.011	0.013	0.016	0.013
٠.	-13	0.018	0.012	0.013	0.019	0.017
	-12	0.016	0.013	0.012	0.214	0.011
O.	-11	0.019	0.016	0.013	0.012	0.010
0	-10	0.017	0.016	0.016	0.014	0.011
` /	-9 ·	0.021 0.029	0.020 0.026	0.020 0.025	0.017	0.014
• • •	-7	0.025	0.025	0.024	0.021	0.017
0	-6	0.030	0.031	0.033	0.025	0.023 0.034
	-5	0.039	0.037	0.546	0.052	0.048
_ ···	. 	0.053	0.042	0.049	0.C54	0.061
\Box	-3	0.081	0.085	0.070	0.072	0.111
***		0.109	C•138	0.118	3.113	0.145
0]	-1	0.114	0.135	0.120	0.114	9.118
	0	0.104	0.109	0.111	0.119	0.398
0	2	0.080 0.080	0.091	0.110	0.098	0.085
•	3	C.083	0.093 0.070	0.095 0.063	0.073	0.072
•	4	0.671	C.051	0.048	0.049 0.046	0.053
0		C.065	0.057	0.046	0.040	0.051 0.046
	6	0.044	0.052	0.042	0.031	0.030
۱ 	7	C.028	0.033	0.037	0.033	0.023
`_	8	0.027	0.023	0.026	0.027	0.520
rea	9. <u>.</u>	0.023	0.023	0.022	0.019	€.014
Ĵ.,	10	0.022	0.026	0.019	9.014	0.013
	11	C.020	0.019	0.015	0.013	0.012
	12 .	0.015	0.014	9.915	0.015	0.013
J	13	0.017	0.017	9.018	0.018	0.016
;	14	0.019	0.019	0.017	C.018	0.016
\bigcirc	15 16	0.021 0.018	0.018 0.018	0.015 0.014	0.018	0.017
-	17	0.013	0.016	0.014	0.018 0.014	0.017
	18	0.012	0.017	0.018	0.014	0.012 0.013
C	19	0.017	0.018	0.019	0.320	0.020
	20	0.019	0.016	0.016	0.020	0.022

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* }		BENNING 2 GRID S -143	- '
)		CORRECTED SPECTRUM, (F-STAR)	-
O			
1-1		20	
		Description of the second seco	
Ö	-20	0.014	
<u> </u>	19_	0.016	
0	-18 -17	0.016 C.014	
ــــــــــــــــــــــــــــــــــــــ	-16	0.014	
,	-15	0.013	•
0	-14	C.014	
. 1	13_	0.015	
	-12	0.010	
O ,,,	11	0.019	
	-10	C.012	
C	9	C.013	
		C.015	
	-7	0.024	
0,	6 .	C.G34	
	-5 -4	0.346	
0	-3	C.138	
	-2	0.172	
-	-1	0.137	
O ,		O the same of the same to the same of th	
	0	0.124	
0	, L	C.065	
•	3	0.052	
	4	0.056	
O,	5 .	0.050	
	6	0.032	
~	7. 8	0.017	
	9	0.017	
_	10	0.012	
•	11	0.012	
<u> </u>		0.011	
	13	0.014 0.016	
:	- 15 15	0.016	•
Q:	16	0.014	
	17	C+011	
∽ ::	18 .	0.011	
Ų	19	0.017	
71	20	0.019	
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		MCCLELI	LAN 1 GRI	D T	-144	i-
· ···	**************************************	CORRECTED S	SPECTRUM,	(F-STAR)	and the second of the second o	sif J
	••		1	2	3	4
O ;	-20	0.012	0.008	0.009	0.011	0.01
"ja come	-19	0.012	(C.010	O.01C	0.010	0.012
_	-18	0.616	0.009	0.008	0.008	C.00
O	_17 .	0.009	0.011	0.010	008	0.001
	-16	0.011	0.015	0.013	0.009	0.00
	15	0.015	0.018	0.015	0.010	C.01
Ö	-14	0.015	0.018	0.015	0.012	0.01
·		0.012	0.015	0.016	0.015	0.01
0	-12	0.014	C.017 C.022	0.018	0.014 0.015	0.014
·			0.022	U4Q10	0.019	
. `	-10	0.025	0.024	0.017	0.619	0.02
	-9	0.025	0.020	0.020	0.026	0.034
	-8	0.025	0.017	0.026	0.030	0.037
******	-7	0.034	0.025	0.025	0.034	0.032
	-6	0.053	0.047	0.043	0.049	0.040
	- 5	0.076	0.073	0.061	0.052	0.645
_ :		0.099	0.121	0.093	J. 0.058	0.042
	- 3	0.173	0.178	0.120	0.071	0.045
:	2		0.317	0.148	. 0.074	0.062
Ο.	-1	6-898	1.591	0.302	0.099	0.064
1+	0		8.736	0.730	0.142	0.056
~	1	6.898	4.276	1.149	0.332	0.129
D	2	0.567	1.031	0.905	0.483	0.207
. ,	3	0.173 C.099	0.304 0.131	0.367 . 0.130	0.267 0.106	0.156
	5	0.075	0.075	0.150	0.150	0.102 0.066
ر م	5 6	0.053	0.043	0.037	0.042	0.042
	7	0.034	0.735	0.032	. G.043	0.039
	8	0.025	0.729	0.027	0.032	0.033
	9	0.025	0.021	0.020	0.024	0.027
D.	10	0.025	0.018	0.016	0.017	0.022
	11	0.022	0.017	0.017	0.016	C.018
• • •	12	0.014	0.012	0.014	0.013	0.614
\mathcal{O}^{-}	13	0.012	0.019	0.011	0.010	C.012
·	14	0.015	0.011	0.011	0.913	0.017
_	15	0.015	0.011	G.014	0.516	0.017
	16	0.011	0.009	0.013	0.014	0.018
	17	0.009	C.008	0.008	0.010	0.012
_ :	. 18		0.011	0.807	0.008	0.010
O _e	19	0.012	0.011	0.009	0.010	5.011
	20	0.012	G.013	0.016	0.011	0.012

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	THE STATE OF THE S	MCCLEL	LAN 1 GRI	D T	-14	15-
; `		CORRECTED	SPECTRUM,	(F-STAR)	يوسيسيد	
·		3	6	7	8	<i>9</i>
) ·	-20	0.016	0.015	0.013	0.014	0.016
	-19	0.013	0.013	0.013	0.014	C-015
, 	-18	0.010	0.011	0.010	0.011	0.014
) ,		0.012	0.014	0.008	0.008	0.014
,	-16	0.010	0.011	0.010	0.C13	0.015
S		0.010	0.011	G.C14	0.019	0.G17
)	-14	0.012	0.014	0.015	0.016	C.014
· 1		0.015	0.015	0.012	0.C1C	0.009
_	-12	0.018	0.017	0.012	0.010	0.010
) ₁₁		6.017	0.018	0.015	0.012	0.012
. :		0.020	0.019	0.019	0.013	0.013
-	. -9	0.026	0.019	0.018	0.014	G-C16
E	-8	0.026 0.022	0.018	0.018	C. 018	C+02G
)	- 6	0.032	0.021 0.031	0.019 0.024	0.022	0.023
13	-5	0.041	0.037	0.030	0.025	0.023
	-4	0.039	0.040	0.035	0.030	0.03C
) " <u>"</u>	-3	0.036	0.035	0.036	0.037	0.036
15		0.047	0.036	0.040	0.038	0.036
\ \	-1	0.050	0.047	0.051	0.039	0.034
·;	0	0.050	0.045	0.051	0.046	C. C34
17	1	0.060	0.039	0.039	0.041	C.G30
)	2	0.081	0.040	0.032	0.029	0.028
11	3	0.084	0.039	0.032	0.037	0.G41;
`	4	0.072	0.042	0.056	0.274	380.0
, 11-i	5	0.068	0.053	0.061	. 0.077	0.082
	6 7	0.047 0.031	0.042 0.033	0.034	0.039	0.048
) :,	/ 8	0.031	0.046	0.028 0.043	0.027 0.029	0.027
, 31	9	0.028	0.043	0.043	0.023	0.021
))	10	0.025	0.034	0.037	0 022	0.014
2?	11	0.024	0.036	Q.037	0.022 0.026	0.016 0.017
	12	0.021	0.032	0.029	0.022	0.023
)	13	0.016	0.021	0.017	0.019	0.621
•• •	14	0.015	0.016	0.C14	0.013	0.016
41	15	0.015	0.014	0.013	0.011	0.012
) ::	16	0.017	0.015	0.013	0.011	0.012
	17	0.015	0.013	0.012	0.011	0.012
. 25	18	0.010	0.009	0.012	0.013	0.011
	19	0.009	0.009	0.013	0.013	0.010
<i>v</i>	20	0.010	0.011	0.013	0.010	0.009
j 21			ner van make de lee nee mee'n de nee was nee nee	**************************************	** ************************************	
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		MCCLELI	LAN 1 GRII	T		-146-
ا سبالاً ا		CORRECTED S	SPECTRUM,	F-STAR)		
D		10	11	12	13	14
က ^{္ႏ}	-20	0.017	0.017	0.013	0.014	0.020
		C.016	0.019	0.014	0.013	0.017
	-18	0.014	0.019	0.017	0.013	0.014
D ,	17	0.014	0.015	0.016	0.012	C-G14
	-16	0.012	0.010	0.012	0.013	.O.C13
. ;	15	0.012	0.010	0.014	0.016	0.013
\bigcirc	-14	0.012	0.012	0.013	0.013	C.012
1	13	0.010	0.012	0.011	0.009	0.011
$\overline{}$	-12	0.008	0.008	0.009	0.010	0.014
	11	0.008	0.009	0.012	0.014	0.015
		0.011	0.010	0.514	0.016	0.015
U.	-9	G.C18	0.015	0.516	0.016	C.013
; ·		0.023	0.017	0.014	0.015	0.016
$\overline{}$	-7	C.022	0.016	0.014	9.315	0.021
O:	~6	0.017	0.015	0.015	0.018	0.024
	-5	0.018	0.018	0.017	0.617	0.020
<u> </u>		0.021	0.017	0.018	0.020	C.C21
•	-3	9.024	0.021	0.026	0.028	0.028
	~2 -1	0.030 0.032	0.028	0.035 0.030	0.035 9.037	0.031 0.033
O		U+U52	0.028		1611.01	0.053
	0	0.029	0.029	9.028	0.033	0.031
<u> </u>	. 1 . .	0.027	0.030	0.033	0.036	0.033
_	/ 2	0.027	0.028	0.033	0.039	0.03
٠, ،		0.035	C.027	0.027	0.035	0.030
$\overline{}$	7	0.050	0.032	0.025	0.031	0.028
•		0.065	0.034 '0.026	0.021 0.018	0.023 0.015	0.01
	7	0.042	0.020	2.017	0.014	0.014 6.017
O 1		0.018	0.019	0.017	0.015	C. G1
· ·	9	0.018	C.015	0.015	0.015	0.014
	10	C.015	0.013	0.015	0.017	0,016
O	10 11	0.014	0.014	0.016	0.017 0.020	G. 017
	12			0.015	2.019	0.618
~ ····	13	C.017	0.017	0.914	. 0.016	0.017
•	14	0.017	0.017	0.015	0.317	0.018
	15	0.012	0.014	0.019	0.022	0.017
	16	0.010	0.011	0.019	0.025	G-020
	17	0.014	0.016	0.018	0.029	0.026
	18	0.015	0.019	0.022	0.028	0.022
	19	0.012	0.014	0.019	0.022	0.018
;	20	0.011	0.012	0.015	0.C13	0.618

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)	ere a company con	MCCLE	LLAN 1 GR	ID T		-147-
; -		NOTOTEN		45.0500	and the second of the second o	
	CUI	KKEGIED	SPECTRUM,	(F-STAR)		
(*	15	16	17	18	19
·	20	0.024	0.023	0.020	C.015	0.01
	19	0.018	0.019	0.018	6.314	6.91
-	18	0.013	0.013	0.012	.0.011	0.01
	17	0.016	0.014	0.013	0.008	C.00
	16	0.015	0.014	9.010	0.009	0.C1
	15	0.013		0.011	0.011	0.014
	14	0.016	0.029	0.015	0.012	0.012
		0.014	0.019_	0.016	0.012	0.012
		0.014	0.013	0.013	C.013	0.015
	11	0.014	0.013	0.012	0.013	0.013
	10	0.016	0.016	J.011	0.010	0.011
•	-9	0.017	0.018	9.013	0.010	0.011
		6.020	0.019	0.014	0.016	0.018
		C.024	G.017	0.015	0.024	0.021
		0.025_	0.016 _	0.017	0.026	0.020
		0.020	0.019	0.019	0.022	9.021
		0.018	0.023	0.025 .	0.020	0.021
		0.023	0.023	0.026	0.024	0.021
		0.029	0.024	0.024	0.025	0.024
		0.026	0.025	0.026	0.029	0.034
		0.026	0.025	0.028	0.032	0.039
t/		0.027	0.026	0.030	0.031	0.031
/		0.023	0.018	0.022	0.023	9.024
!`		0.022	0.015	0.017	0.021	C.026
		0.019	0.016	0.018	0.021	0.025
		0.016 0.015	0.J17 0.015	0.017	0.018 .	C.C18
		0.017	0.015	0.015	0.016	0.014
(3		0.017	0.015	0.013	0.014 . 0.011	0.015
٠		0.018	0.021	0.020	0.017	0.017
1		0.017	0.020	0.022	0.000	
1		3.016	0.020 0.016	0.023	0.022	0.019
		0.016		0.018 0.017	0.019	0.015
7:		.018	0.021	0.014	0.012	0.011
,, <u> </u>		.019	0.017	0.014	0.013	0.012
ī		0.014	0.011	0.011	0.015	0.016
		016		0.011	0.016	
1		.019	G.014	0.012	0.016	0.015
1	80	.019	0.016	0.013	0.013	0.013
1	9 0	.019	0.016	0.012	9.012	0.012
2	0 0	.021	0.016	0.012	0.013	0.013

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	0	*.*	MCCLELLAN 1 G	RID T -148-
		See . se ev .	CORRECTED SPECTRUM	(F-STAR)
	C	(m. va. #	20	
	Ö	-20	0.014	
		,19 -18	0.015 0.015	
	· 0	-17 -16	C.911 0.011	
	, . C	-15 -14	0.013 0.012	•••••••••••••••••••••••••••••••••••••••
		-13 -12	C.013 0.016	
	ୃଠା	-11	0.014	
Contract of	O'	-10 -9	0.013	
		-8 -7	0.017	
	C	-65	C.014 C.018 G.020	
4	C	-3 -2	0.019	
	0.	-1	0.037	
:		, n		
,	0	3	0.021 	
		5	0.027 0.018 0.013	
	C.	, 7 8	C.016	
		9.	0:017	
	O ::	10	0.017	
	0	12	0.011	
	:	15	0.014	
	. O,	17	0.016 C.015	
1	0	19	0.016	•
	" رن	20	0.012	
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			THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	No. 100 mark that	* * * ** ·	e programme and the second	
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			47	r for the same of			
O T		MCC1 E	LLAN 2 GRI	D DEF. U		-149-	
C , J	*	MUGEE	FEMA S GRI	D DEF. U		3563	
• •		 . ,		-		The second of the second	
		CORRECTED	SPECTRUM.	(F-STAR)			
Ο.			4. 201110114	** ******	•		
()		-	enteres de la companya de la company	magnetic services of the servi	e Mariana de la compansión de la compans		
		0	1 .	. 2	3	4	
				· —·	- ,		
~ ·				9- <u>- 1</u>			· .
O	-20	0.009	0.312	0.013	0.014	C.018	٠,
	-19	0.012	0.013	0.012	0.C13	0.020	, 5.
	-18						
	-	0.016	0.015	C.011	.0.013 "	0-020	
· O,	17	0.016	0.013	0.011	0.014	C.C18	į.
•	-16	C-014	0.015	0.018	0.019	C-020	•
•							
_ :	15	C.016	0.022	0.026	0.022	C.023	
0	-14	0.018	0.029	0.032	0.023	0.022	
•	13	0.021	0.028	0.032			
?					0.026	0.019	
_	-12	0.C27	0.025	0.031	0.030	0.021	
Ο.,	-11	0.028	0.025	0.028	0.028	0.024	
- !/			,	JAVEO	******		••
•			• • •				
	10	0.024	0.028	0.031	0.028	0.028	
	-9	0.037	0.036	0.042	0.035	0.028	
	·				`		
i	8	0.070 _	0.060	0.058	0.C50	0.039	
	-7	C.117	0.108	0.083	0.064	0.066	
Q	-6	0.192					
'*			0.196	0.161	0.103	0.117	
•	· - 5	0.411	0.402	0.341	0.216	0.198	
	-4	1.217	1.131	0.819	0.532	0.364	
	-3						
•	_	4.538	3.872	2.337	1.396	0.791	
	2	27.196	17.630	7.970	3.583	1.829	
	1	442 170	122 071	22 427	7 474	3.100	
	- 1		1/3-7/1	//			
\sim	-1	462.179	123.871	22.637	7.272	34 200	
C	- <u>-</u> 1	402.117		- •	1.212	•	
C	-1	402.179		- •		•	
С			503.115	33.882	8.260	3.037	
C	0	462.179	503.115 126.645	33.882 21.546	8.260 5.679	3.037 2.263	
C		462.179 27.196	503.115 126.645 19.853	33.882	8.260	3.037	
C	0	462.179 27.196	503.115 126.645 19.853	33.882 21.546 7.934	8.260 5.679 3.116	3.037 2.263 1.541	
C	0	462.179 27.196 4.538	503.115 126.645 19.853 3.829	33.882 21.546 7.934 2.565	8.260 5.679 3.116 1.439	3.037 2.263 1.541 0.835	
C	0	462.179 27.196 4.538 1.217	503-115 126-645 19-853 3-829 1-206	33.882 21.546 7.934 2.565 0.937	8.260 5.679 3.116 1.439 0.626	3.037 2.263 1.541 0.835 0.420	
C	0	462.179 27.196 4.538	503.115 126.645 19.853 3.829	33.882 21.546 7.934 2.565	8.260 5.679 3.116 1.439	3.037 2.263 1.541 0.835	
C:	0	462.179 27.196 4.538 1.217 C.411	503-115 126-645 19-853 3-829 1-206	33.882 21.546 7.934 2.565 0.937 0.339	8.260 5.679 3.116 1.439 0.626 0.264	3.037 2.263 1.541 0.835 0.420 0.185	
C:	0	462.179 27.196 4.538 1.217 C.411 C.192	503.115 126.645 19.853 3.829 1.206 0.436	33.882 21.546 7.934 2.565 0.937 0.339 0.184	8.260 5.679 3.116 1.439 0.626 0.264	3.037 2.263 1.541 0.835 0.420 0.185 0.121	
O	0 1 , 2 , 3 4 5 6	462.179 27.196 4.538 1.217 C.411 0.192 0.117	503.115 126.645 19.853 3.829 1.206 0.436 0.180	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140	8.260 5.679 3.116 1.439 0.626 0.264 0.175	3.037 2.263 1.541 0.835 0.420 0.185 0.121	
	0	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128	3.037 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073	
	0 1 , 2 , 3 4 5 6	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128	3.037 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073	
O	0 1 , 2 , 3 4 5 6 7	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070	503.115 126.645 19.853 3.829 1.206 0.436 0.180	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093	8.260 5.679 3.116 1.439 0.626 0.264 0.175	3.037 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073	
	0 1 , 2 , 3 4 , 5 , 6 , 7 , 8 , 9	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.0737	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080	3.037 2.263 1.541 0.835 0.423 0.185 0.121 0.089 0.073 0.081	
	0 1 , 2 , 3 4 5 6 7 8 9	462.179 27.196 4.538 1.217 C.411 C.192 C.117 C.070 G.037	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055	3.037 2.263 1.541 0.835 0.423 0.185 0.121 0.089 0.073 0.081	
	0 1 , 2 , 3 4 , 5 , 6 , 7 , 8 , 9	462.179 27.196 4.538 1.217 C.411 C.192 C.117 C.070 G.037	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055	3.C37 2.263 1.541 0.835 0.422 0.185 0.121 0.089 0.073 0.C81	
	0 1 , 2 , 3 4 5 6 7 8 9	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037	503.115 .126.645 .19.853 .3.829 .1.206 .0.436 .0.180 .0.123 .0.082 .0.045	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081	
	0 1 , 2 , 3 4 5 6 7 8 9	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055	3.C37 2.263 1.541 0.835 0.422 0.185 0.121 0.089 0.073 0.081	
	0 1 , 2 , 3 4 5 6 7 8 9	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037	503.115 .126.645 .19.853 .3.829 .1.206 .0.436 .0.180 .0.123 .0.082 .0.045 	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081	
O	0 1 , 2 , 3 4 5 6 7 8 9	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037	503.115 .126.645 .19.853 .3.829 .1.206 .0.436 .0.180 .0.123 .0.082 .0.045 	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.028	
	0 1 , 2 , 3 4 5 6 7 8 9	462.179 27.196 4.538 1.217 C.411 C.192 0.117 G.070 G.037 C.024 G.028 0.027 0.021 0.018	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045 0.035 0.035 0.027 0.021 0.018	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.028	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026	
	0 1 , 2 , 3 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037 C.024 G.028 0.027 0.021 0.018 0.016	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045 0.035 0.035 0.027 0.021 0.018 0.015	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026 0.025 0.019	
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	0 1 , 2 , 3 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037 C.024 C.028 0.027 0.021 0.018 0.016 C.014	503.115 .126.645 .19.853 .3.829 .1.206 .0.436 .0.180 .0.123 .0.082 .0.045 .0.033 .0.035 .0.027 .0.021 .0.018 .0.015 .0.016	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015 0.015	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.025 0.025	
	0 1 , 2 , 3 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037 C.024 C.028 0.027 0.021 0.018 0.016 C.014	503.115 .126.645 .19.853 .3.829 .1.206 .0.436 .0.180 .0.123 .0.082 .0.045 .0.033 .0.035 .0.027 .0.021 .0.018 .0.015 .0.016	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015 0.015	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023 0.020 0.020	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026 0.025 0.019 0.020 0.019	
	0 1 , 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	462.179 27.196 4.538 1.217 C.411 C.192 O.117 O.070 G.037 C.024 G.028 O.027 O.021 O.018 O.016 O.014 C.016 O.016	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045 0.033 0.035 0.027 0.021 0.018 0.015 0.016 0.016	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015 0.015 0.014	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023 0.020 0.018 0.015	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026 0.025 0.019 0.019	
	0 1 , 2 , 3 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17	462.179 27.196 4.538 1.217 C.411 C.192 0.117 C.070 G.037 C.024 C.028 0.027 0.021 0.018 0.016 C.014	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045 0.033 0.035 0.027 0.021 0.018 0.015 0.016 0.016	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015 0.015 0.014	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023 0.020 0.020	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026 0.025 0.019 0.020 0.019	
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	0 1 , 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	462.179 27.196 4.538 1.217 C.411 C.192 O.117 O.070 G.037 C.024 G.028 O.027 O.021 O.018 O.016 O.014 C.016 O.016	503.115 126.645 19.853 3.829 1.206 0.436 0.180 0.123 0.082 0.045 0.033 0.035 0.027 0.021 0.018 0.015 0.016 0.016	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015 0.015 0.014	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023 0.020 0.018 0.015	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026 0.025 0.019 0.019	
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	0 1 , 2 , 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	462.179 27.196 4.538 1.217 C.411 C.192 O.117 O.070 G.037 C.024 G.028 O.027 O.021 O.018 O.016 O.016 O.016 O.016	503.115 .126.645 .19.853 .3.829 .1.206 .0.436 .0.180 .0.123 .0.082 .0.045 .0.033 .0.035 .0.027 .0.021 .0.018 .0.015 .0.016 .0.016 .0.013 .0.011	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015 0.015 0.015	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023 0.020 0.020 0.018 0.015 0.013	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026 0.025 0.019 0.019 0.015 0.013	
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	0 1 , 2 , 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	462.179 27.196 4.538 1.217 C.411 C.192 O.117 O.070 G.037 C.024 G.028 O.027 O.021 O.018 O.016 O.016 O.016 O.016	503.115 .126.645 .19.853 .3.829 .1.206 .0.436 .0.180 .0.123 .0.082 .0.045 .0.033 .0.035 .0.027 .0.021 .0.018 .0.015 .0.016 .0.016 .0.013 .0.011	33.882 21.546 7.934 2.565 0.937 0.339 0.184 0.140 0.093 0.052 0.038 0.036 0.027 0.024 0.019 0.015 0.015 0.015	8.260 5.679 3.116 1.439 0.626 0.264 0.175 0.128 0.080 0.055 0.042 0.034 0.030 0.023 0.023 0.020 0.020 0.018 0.015 0.013	3.C37 2.263 1.541 0.835 0.420 0.185 0.121 0.089 0.073 0.081 0.064 0.036 0.026 0.026 0.025 0.019 0.019 0.015 0.013	
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	Security of Assessed	MCCLELI	LAN 2 GRI	D DEF. U	د من ه در من در ا	-150-	
<u>:</u>	المستان الاست الك سيس ا	CORRECTED :	SPECTRUM,	(F-STAR)	mineral is a second of the sec	• • • • • • • • • • • • • • • • • • •	
****		5	6	7	8	9	,
; -	-20	C-017	0.010	0.007	0.010	0.012	
t	-19	C.017	0.069	0.008	0.612	0.012	
i	-18 -17	0.018	0.010	0.009	0.010	0.013	
<i>'</i> 7		0.016	C.010	0.009	0.919	0.013	
	-16 -15	0.015	0.014	0.016	0.015	0.617	
1		0.018	0.316		0.021	0.018	
	-14 -13	0.017	0.015 0.016	0.015 0.017	0.019 0.021	0.018 0.023	
	-12	0.020	0.020	0.018	0.020	0.025	* *
).,	-11	0.026	0.026	0.020	C.018	C. 02 0	
;a	· · · · · · · · · · · · · · · · · · ·	YTVEY			04940	,, VIVEU	
	-10	C.032	0.030	0.023	0.022	C. C22	
)"	-9	0.030	0.029	0.C27	0.029	0.C29	
1.	-8	0.035	0.030	0.030	C.035	0.039	1
	-7	0.071	0.055	0.051	0.050	0.045	
),	-6	0.124	0.111	0.092	0.056	0-049	
,,	-5	0.165	0.157	C.140	0.088	0.068	
. 11		0.261	0.233	0.190	0.150	0.118	
)	~3	0.461	0.329	0.261	0.231	0.164	
.:		0.907	0.452	0.373	0.348	0.249	
)	-1	1.239	0.593	0.433	0.414	0.355	
	0	1.156	0.620	0.467	0.450	0.406	
	1	1.068	0.625	0.428	0.337	0.279	
) '	, 2	0-854	0.604	0.373	0.245	C-179	•
17	′3	0.503	0.448	2.334	0.212	0.157	
	4	0.283	0.244	0.199	0.152	0.130	
) _{;,}	5	2.142	G•132	. 0.193	0.080	0.083	
	6	0.079	0.085	U.C79	0.055	0.052	
. :	7	0.069	0.068	0.049	0.036	0.040	
, .	8	0.080	0.067	0.035	0.027	0.033	
r. —	9	0.091	0.070	0.039	0.024	0.034	
•	10	0.070	2 350	0.061	0 224	0.000	
n			0.058	0-041	0.024	0.028	
	11 12	C.038	9.044	0.038	0.022 0.018	0.023	
1:	13		C.021		0.014	0.921 0.921	
		C.023		0.011	0.017	0.024	
7	15	C.017	0.019	0.016	0.020	0.025	
	16	0.016	0.019	0.020	0.719	0.025	
" :: 	17	0.013	0.013	0.014	0.012	0.010	
	18	0.011		0.013	0.012	0.008	
) **	19	0.014	0.014	0.013	0.012	0.010	
<i>r</i>	20	0.018	0.016	0.014	0.013	0.014	
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13	•	TT.	0.027	0.027	0.031		
15	¬::	IZ	10022	U•OTA			0.016
15 0.020 0.013 0.013 0.014 0.016 16 0.016 0.012 0.007 0.009 0.012 17 0.014 0.014 0.019 0.009 0.012 18 0.009 0.011 0.010 0.008 0.008 19 0.010 0.013 0.014 0.011 0.013		14	0.019	0.017	0.022		0.018
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~ _	Margaritanian (n.j. 1 s.), de hasay	CORRECTED	SPECTRUM,	(F-STAR)		•
*	PRODUCTIVE OF STATE O	15	16	17	18	19
ت من	-20	0.017	3.017	0.011	0.610	0.01
: , <u> </u>	19 -18	0.014 0.019	0.015	0.010 _	0.009	0.61
\circ	-17	0.015	0.017	0.010	0.009 0.010	0.01
· / /	-16	0.014	0.013	0.014	0.012	0.01
	-15	C.015	0.014	0.013	0.013	0.01
J'	-14	0.019	0.014	0.012	0.012	0.01
	13	0.014	0.015	0.015	0.012	0.01
_	-12	0.017	0.016	0.014	6.012	0.01
O ,,	-11	0.013	0.015	0.012	0.013	0.01
- ::	-10	0.018	0.019	0.016	0.016	0.01
O .	-9	0.018	0.024	0.021	0.018	C.019
' R		0.028	0.022	0.021	0.021	0.02
$\hat{}$	-7 -6	0.040	0.031	0.024	0.031	0.03
:		0. 060	0.043	0.032	0.038	0-03
	-4	0.057 0.087	0.041 0.057	0.041 0.065	0.049	0.04
) "	-3	0.145	0.116	0.118	0.077 0.131	0.074
٠,,	-2	0.235	0.228	0.176	0.165	C-17
~ · · ·	-1	0.397	0.423	0.275	0.195	0.19
؛ ک	0	0.535	0.502	0.343	0.258	0.233
	1	G.458	0.396	0.319	0.273	9-242
	2	C.273	0.241	0.220	0.197	0.17
12-	3	0.155	0.137	0.137	0.136	. 0.114
_	<u> </u>	6.080	0.078	C-074	0.088	0.083
ر ب	 5	C•969	0.067	0.059	0.064	0.4060
	6 7	0.042	0.048	0.048	C.053	G-044
م ے ::	8	0.018	0.036 0.022	0.032 0.021	0.034 0.022	0.034
- ::	9	0.020		0.016	0.017	0.023
D	10	0.017	0.018	0.025	0.026	0.020
- ;; ==.	11	C.021	0.018	0.023	0.025	0.022
_ 72	12	0.016	0.018	0.018	0.019	0.023
J	13	0.019	0.020	0.021	0.018	0.019
::	14	C.013_	0.016	. 0.018	0.016	0.013
_	15	0.015	0.015	C-018	0.018	0.014
۔۔۔ تا ک	16	0.012	0.018 0.018 0.018 0.020 0.016 0.015 0.015 0.014	0.017	0.017	0.015
	17	0.014	0.014	0.016	0.014	0.614
) *	19	0.015	0.014 0.014 0.013	0.014	0.012 0.012	0.013 3.C12
r	20	0.014	0.012			
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ר	•	MCCLELLAN 2 GRID DEF. U -153-
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<u> </u>		CORRECTED SPECTRUM, (F-STAR)
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	**-	പ്രത്യായ വര്യായ പ്രത പ്രത്യായ പ്രത്യായ വര്
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		Control of the contro
	-18	0.011
ر C	-17	0.012
·	-16	0.013
_ :	-15	0.011
(C)	-14	0.010
7	13_	C.010
_	-12	0.010
); <u></u> .	11	0.012
		0.016
\rightarrow	-9	C•019
-	8	0.025
_	-7	0.034
	-6	0.034
	-5	0.049
	4	0.074
•	-3	C•125
	2_	
	1	0.203
		grand and the second se
	0	0.224
	11	0.243
	2	0.170
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•	8	0.019
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~	10	A A1A
√	10_ 11	0.018
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-20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9	0.0278198 0.0315925 0.0315925 0.0342975 0.0240074 0.0264078 0.0450515 0.0450515 0.0488183 0.0710358	2 10	ABERDEEN 1 CORRECTED S -0 -1 0.0274538 0.0298364 0.0282403 0.0429933 0.0349720 0.0360552 0.0565207 0.0580606	0 0.0342357 0.0340821 0.0404742 0.0495046 0.0519682 0.0387617 0.0324402 0.0472906	-154-
-20 -19 -16 -17 -16 -15 -14 -13 -12 -11 -10 -9	-2 0.0278198 0.031592 0.035853 0.0342975 0.0240074 0.0264078 0.0327582 0.0450515 0.0488183 0.0710358	2 10	CORRECTED S -0 -1 0.0274538 0.0298364 0.0282403 0.0429933 0.0396936 0.0349720 0.0360552 0.0565207	0 0.0342357 0.0340821 0.0404742 0.0495046 0.0519682 0.0387617 0.0324402	
-20 -19 -16 -17 -16 -15 -14 -13 -12 -11 -10 -9	-2 0.0278198 0.031592 0.035853 0.0342975 0.0240074 0.0264078 0.0327582 0.0450515 0.0488183 0.0710358	2 10	CORRECTED S -0 -1 0.0274538 0.0298364 0.0282403 0.0429933 0.0396936 0.0349720 0.0360552 0.0565207	0 0.0342357 0.0340821 0.0404742 0.0495046 0.0519682 0.0387617 0.0324402	
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-20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9	-2 0.0278198 0.0315925 0.0358535 0.0342975 0.0240074 0.0264078 0.0327582 0.0450515 0.0488183 0.0710358	2 10	CORRECTED S -0 -1 0.0274538 0.0298364 0.0282403 0.0429933 0.0396936 0.0349720 0.0360552 0.0565207	0 0.0342357 0.0340821 0.0404742 0.0495046 0.0519682 0.0387617 0.0324402	
-20 -19 -16 -17 -16 -15 -14 -13 -12 -11 -10 -9	-2 0.0278198 0.0315925 0.0358535 0.0342975 0.0240074 0.0264078 0.0327582 0.0450515 0.0488183 0.0710358		-1 0.0274538 0.0298364 0.0282403 0.0429933 0.0396936 0.0349720 0.0360552 0.0565207	0.0342357 0.0340821 0.0404742 0.0495046 0.0519682 0.0387617 0.0324402	
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-19 -16 -17 -16 -15 -14 -13 -12 -11 -10 -9	0.0315925 0.0358535 0.0342975 0.0240076 0.0264076 0.0327582 0.0450515 0.0488183	5 5 6 7	0.0298364 0.0282403 0.0429933 0.0396936 0.0349720 0.0360552 0.0565207	0.0340821 0.0404742 0.0495046 0.0519682 0.0387617 0.0324402	
-16 -17 -16 -15 -14 -13 -12 -11 -10 -9	0.0358539 0.0342979 0.0240074 0.0264078 0.0327582 0.0450519 0.0488183 0.0710358	3	0.0282403 0.0429933 0.0396936 0.0349720 0.0360552 0.0565207	0.0404742 0.0495046 0.0519682 0.0387617 0.0324402	
-17 -16 -15 -14 -13 -12 -11 -10 -9	0.0342975 0.0240074 0.0264078 0.0327582 0.0450515 0.0488183 0.0710358	3 .	0.0429933 0.0396936 0.0349720 0.0360552 0.0565207	0.0495046 0.0519682 0.0387617 0.0324402	
-16 -15 -14 -13 -12 -11 -10 -9	0.0240074 0.0264078 0.0327582 0.0450519 0.0488183 0.0710358		0.0396936 0.0349720 0.0360552 0.0565207	0.0519682 0.0387617 0.0324402	
-15 -14 -13 -12 -11 -10 -9	0.0264078 0.0327582 0.0450519 0.0488183 0.0710358		0.0349720 0.0360552 0.0565207	0.0387617 0.0324402	
-14 -13 -12 -11 -10 -9	0.0327582 0.0450519 0.0488183 0.0710356	<u> </u>	0.0360552 0.0565207	0.0324402	
-12 -11 -10 -9	0.0488183 0.0710356			0.0472906	
-11 -10 -9	0.0710356		0-0580606		
-10 -9		3		0.0526357	
-9	0.0983586		0.0636440	0.0566222	
			0.0835941	0.0789193	
-8	0.1103469		0.1460026	0.1739589	
-7 ·	0.1714545		0.2349432	0.3067419 0.4870527	
-6	0.3459855		0.4651871 1.0978140	1.1499376	
-5	1.3972340		2.5610043	2.8454378	
-4	3.5982272		9.5555704	15.1048503	
-	0.3524969		38.8668232	79.7536631	
	3.7091520		01.9967728	274.2427216	
	12.0631456		76.9115849	1106.2592621	
	5.1102943		87.1688156		
	7.6787000		58.7478828	1106.2592621	
	25.3786037		46.6065769	274.2427216	
3 1	1.5172086 3.5826627		47.9258504 10.2196643	79.7536640 15.1048503	
5	1.2911191		2.0103017	2.8454377	
6	0.8727438		0.9095381	1.1499376	
7	0.3929996		0.4200314	0.4870527	•
8	0.1618061		0.2523428	0.3067419	
9	0.0951332	2	0.1299738	0.1739589	
10	0.0771728		0.0820144	0.0789193	
11	0.0720254		0.0627293	0.0566222	
12	0.0782136		0.0573801	0.0526357	:
13	0.0791790		0.0462656	0.0472906	
14	0.0522328		0.0358688	0.0324402	·
15 16	0.0323839		0.0345428	0.0387617 0.0519683	
17	0.0382133		0.0426793	0.0495047	
18	0.0339936		0.0472670	0.0495047	
19	0.0281095		0.0343629	0.0340821	
20	0.0357307		0.0383667	0.0342357	

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• •			ABERDEEN 1		-155
41			HE CORRECTED SPE	ECTRUM, (F-STAR)	
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		COLUMNS 1	TO 3		
		1	2	3	
	-20	0.0383667	0.0357307	0.0380461	
-	-19	0.0343628	0.0281095	0.0305940	
_	-18	0.0472670	0.0339936	0.0251350	
444	-17 -16	0.0426793 0.0446881	0.0410682 0.0382133	0.0345175 0.0365646	
1633	-15	0.0345428	0.0323838	0.0352100	
ÎÇ Î	-14	0.0358687	0.0522328	0.0506876	
	-13	0.0462656	0.0791790	0.0791502	
3737	-12	0.0573800	0.0782136	0.0757593	
	-11	0.0627293	0.0720254	0.0638101	
	-10	0.0820144	0.0771728	0.0638834	
<u> </u>	-9	0.1299738	0.0951332	0.0881613	
• `	-8 -7	0.2523428	0.1618061	0.1263592 0.2942747	
-	-6	0.4200314 0.9095381	0.3929996 0.8727438	0.6872812	
. ^	-5	2.0103019	1.2911193	0.8696387	;
-	-4	10.2196647	3.5826629	1.4315374	*·····································
شند.	· -3	47.9258404	11.5172087	3.3456086	
	-2	146.6065502	25.3786039	4.9282635	
	-1	358.7483854	47.6787319	9.0379821	
4	0	387.1686134	45.1102705	13.1539875	
그 -	1	176.9118347	32.0631666	10.4408157	
	2 3	101.9967575	23.7091522	7.2738684 3.1975331	
15,	4	38.8668150 9.5555704	10.3524971 3.5982273	1.2189594	
- ~*	5	2.5610044	1.3972341	0.6884835	ļ
	6	1.0978140	0.6489867	0.4574072	
-	7	0.4651871	0.3459856	0.2835481	
	8	0.2349432	0.1714545	0.1502733	
-	9	0.1460026	0.1103469	0.1015710	*
-	10	0.0835941	0.0983589	0.0949005	
	11	0.0636440	0.0710358	0.0634980 0.0386571	
	12	0.0580606 0.0565208	0.0488183 0.0450519	0.0347279	
<i>-</i>	14	0.0360553	0.0327582	0.0311405	
	15	0.0349721	0.0264079	0.0346501	
	16	0.0396937	0.0240074	0.0305493	
Mad -	17	0.0429934	0.0342975	0.0295009	-
haran	18	0.0282404	0.0358539	0.0324825	•
;	19	0.0298364	0.0315925	0.0274236	
1000	20	0.0274538	0.0278198	0.0253197	
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	* 3 3 3	ABERDEEN 1	• • • • • • • • • • • • • • • • • • •	-156-
F ver	TH	E CORRECTED SPEC	TRUM, (F-STAR)	
	COLUMNS 4 T	0 6		
	₹	5	6	
-20	0.0332687	0.0281385	0.0263513	
-19	0.0274642	0.0248273	0.0258882	
-18	0.0229779	0.0276259	0.0317652	
-17	0.0261456	0.0275483	0.0325832	
-16	0.0309326	0.0311448	0.0348620	•
-15_	0.0346666	0.0329370	0.0305813	
-14	0.0441501	0.0414079	0.0356227	
-13	0.0656859	0.0448933	0.0384691	
-12	0.0618913	0.0421126	0.0446534	
-11	0.0501960	0.0502251	0.0566099	
-10	0.0589808	0.0756922	0.0869337	
<u>-9</u>	0.0745816	0.0932598	0.1086516	
-8	0.1115809	0.1207822	0.1113805	
<u>-7</u>	0.2138034	0.1736781	0.1209630	
-6	0.3946417	0.2472104	0.1503801	
<u>-5</u>	0.4688126	0.2812661	0.1693939	
-4	0.6951615	0.5080618	0.3048529	•
<u>-3</u>	1.1488654	0.8137832	0.5962611	
-2	1.7977951	1.2450608	1.0285755	
<u>-1</u>	4.1893657	3.1408068	2.8132848	
0	7.2666095	5.4395682	5.1389312	
<u>l</u>	4.9211357	3.2498768	3.0752149	
2	2.9591005	1.7627579	1.1949056	
3	1.6078945	1.2055740	0.9496831	-
4	0.6642014	0.5239009	0.7123193	
<u> </u>	0.4283145	0.2643856	0.3163558	·····
6	0.3155664	0.1723274	0.1215059	•
	0.2076794	0.1330003	0.1123732	
8	0.1449020	0.1044646	0.0906931	
9	0.0996086	0.0753146	0.0661809 0.0493455	<u></u>
10	0.0677038	0.0489952		•
11	0.0456714	0.0430598	0.0549519	
12	0.0307581	0.0383399	0.0500409	
13	0.0304637	0.0389410	0.0433605	
14	0.0344376	0.0361005	0.0302052	
15	0.0442598	0.0362837	0.0243639	
16	0.0347306	0.0268522	0.0246356	
17	0.0307977	0.0324066	0.0324956	
18	0.0295569	0.0335998	0.0312070	;
19.	0.0271212	0.0353817	0.0354224	
29	0.0265758	0.0347515	0.0386289	

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ABERDEEN 1

THE CORRECTED SPECTRUM, (F-STAR)

	COLUMNS 7 T	'O _, 9			
	7	8:	9 .		
-20	0.0257613	0.0202447	0.0209777		
-19	0.0258604 .	0.0264372	0.0283459		
. -18	0.0311400	0.0290091	0.0298243		
-17	0.0281876	0.0296648	0.0332417	· · · · · · · · · · · · · · · · · · ·	
-16	0.0329375	0.0285413	0.0327781		
-15	0.0275111	0.0361779	0.0469889		
-14	0.0337025	0.0351654	0.0509169	•	
-13	0.0395529	0.0399245	0.0536742		
-12	0.0496744	0.0465937	0.0389607		
-11	0.0582595	0.0644613	0.0552461		
-10	0.0773310	0.0671114	0.0606974		
	0.0816157	0.0801263	0.0936118		
-8	0.0847913	0.0742155	0.0994154		
	0.0956388	0.0870363	0.0944140		
-6	0.1144812	0.1145315	0.0952369		
5	0.1266999	0.1675449	0.1683079	`	
-4	0.2871038	0.3068571	0.2858534		
3	0.6150948	0.5970255	0.5740639		
-2	1.0428883	0.9570691	0.8637099		
-1	2.2123089	2.2628976	2.3704804		
0	4.1029652	4.2824042	4.4424255		
1	3.5000469	4.1802165	3.4853306		
2	1.6553764	2.5932249	2.0782286		
3	0.7404244	0.8476619	0.9516550		
4	0.5225415	0.3102607	0.4168478		
5	0.3407775	0.2395892	0.2891974		
6	0.1760392	0.1914387	0.2036704		
7	0-1246300	0.1295693	0.1084381		
8	0.0942666	0.0985079	0.0831090		
9	0.0699735	0.0662157	0.0557290	· · · · · · · · · · · · · · · · · · ·	
10	0.0529135	0.0509568	0.0504832	•	
11	0.0643587	0.0496464	0.0366499		
12	0.0514121	0.0476478	0.0411456		
13	0.0350289	0.0266271	0.0281004		
14	0.0246361	0.0326463	0.0350144	•	
15	0.0256876	0.0280867	0.0292249		
16	0.0311049	0.0397421	0.0418367		
17 .	0.0354184	0.0369101	0.0374377		
18	0.0280050	0.0367238	0.0336206		
19	.0.0319480	0.0344340	0.0312889		
20	0.0317058	0.0345954	0.0367707		
				,	

(L-2)		ABERDEEN 1		-158-		
	TH	THE CORRECTED SPECTRUM, (F-STAR)				
	COLUMNS 10 T	0 12				
	10	11	12	,		
-20	0.0246967	0.0233697	0.0270424	√ æ ≠		
-19	0.0314059	0.0289618	0.0282020			
-18	0.0393519	0.0451680	0.0424658	•		
-17_	0.0392413	0.0400600	0.0395814			
-16	0.0377313	0.0427453	0.0395985			
-15	0.0383117	0.0331491	0.0300876			
-14	0.0451591	0.0402192	0.0371232			
-13	0.0508752	0.0460693	0.0440455			
-12	0.0355362	0.0384914	0.0395369			
	0.0407405	0.0304371	0.0252659			
-10	0.0569127	0.0479317	0.0327005			
-9	0.0837175	0.0621380	0.0472184			
-8	0.1083097	0.0926335	0.0828890			
	0.0998407	0.1180519	0.1160082			
-6	0.0753483	0.1200046	0.1337713			
-5	0.1539150	0.1771588	0.1663732			
-4	0.3245636	0.4003229	0.3029212			
-3 -2	0.5274687	0.5674822 0.7562298	0.4314462 0.5638332	·		
	0.7882790 2.4007970		1.2917308	,		
<u>-1</u>		1.8836803				
. 0	4.0619400 2.3212430	2.9474705 1.5718932	2.1749087 1.2638099			
<u></u>	0.9874966	0.6426898	0.6441858			
2	0.7499514	0.5814906	0.5570794	•		
	0.4530448	0.3517100	0.3164995			
. 5	0.3067640	0.2404223	0.2342096			
6	0.2100328	0.1752247	0.1722367			
7	0.1034101	0.1123442	0.1020864			
8	0.0818217	0.0879462	0.0720443			
9	0.0629921	0.0768958	0.0742151			
10	0.0526936	0.0638023	0.0686471			
11	0.0394955	0.0461899	0.0554692			
12	0.0432640	0.0350221	0.0388435			
13	0.0403398	0.0412517	0.0446805			
14	0.0366557	0.0329766	0.0322527			
15	0.0341955	0.0348637	0.0319473			
16	0.0325289	0.0254091	0.0294606			
17	0.0321206	0.0246880	0.0271558			
18	0.0300637	0.0253919	0.0314820			
19	0.0365419	0.0363890	0.0420552			
20	0.0403132	0.0360718	0.0373620			

\circ					
		r e e	ABERDEEN 1		-159-
中一		T ₁	HE CORRECTED SPE	CTRUM, (F-STAR	13
<u> </u>		COLUMNS 13	TO 15		
· /		13	14	15	
^ _	-20	0.0293677	0.0297808	0.0286747	
**********	-19 -18	0.0308797	0.0309043 0.0311691	0.0292338 0.0281128	
	<u>-17</u> -16	0.0371560 0.0276127	0.0321067 0.0316309	0.0380672	
PP3	-15	0.0271653	0.0417063	0.0484001	₩. [‡]
^	-14	0.0329516	0.0512941	0.0469142	
	<u>-13</u> -12	0.0317333 0.0280459	0.0376330 0.0321067	0.0375764 0.0397391	····
	-11	0.0232046	0.0324071	0.0513126	
	-10	0.0311472	0.0485362	0.0701915	
	-9	0.0520365	0.0586180	0.0798387	
	-8	0.0329483	0.0770658	0.0947436	
	<u>-7</u> -6	0.0953151	0.0894380 0.1011119	0.1284669 0.1478229	
m .		0.1708155	0.1493232	0.1609701	
/	-4	0.2438885	0.2337732	0.2508107	
<u> </u>	-3	0.3169427	0.3361767	0.4337983	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
; —	-2	0.4329746	0.3931466	0.4342779	
	<u>-1</u> 0	1.0516924	0.8674832 1.5505643	0.7807641 1.4051325	
<u> </u>	i	1.0675715	1.0423768	1.0040811	
	2	0.5351865	0.5038495	0.4878373	
<u> </u>	3	0.4519963	0.4270173	0.4812434	· · · · · · · · · · · · · · · · · · ·
	4 5	0.3309060 0.2762479	0.3828022 0.2635297	0.4419337 0.2028640	
	6 .	0.1905674	0.1565562	0.1169273	
<u> </u>	. 7	0.0995434	0.1129027	0.1079088	
	8	0.0620233	. 0.0718980	0.0890772	
	10	0.0619225	0.0502472	0.0625397	
	11	0.0607133 0.0546654	0.0400962 0.0449281	0.0482072 0.0473621	
	12	0.0452656	0.0423777	0.0464672	
) <u> </u>	13	0.0479702	0.0483434	0.0452600	
	14	0.0366648	0.0345436	0.0376233	
	15 16	0.0371400 0.0387311	0.0340221 0.0306332	0.0283257	
Á	17	0.0315258	0.0272609	0.0226674	``
Í) ——	18	0.0363730	0.0253639	0.0223564	
ے۔ ا	19	0.0437887	0.0324484	0.0210349	
25	20	0.0381613	0.0339078	0.0230359	
<u> </u>	·	<u></u>		· · · · · · · · · · · · · · · · · · ·	
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marin di		ABERDEEN	1	-180-
	TH	E CORRECTED SPE	CTRUM, (F-STAR)	
	COLUMNS 16 T	0 18	•	
<u>erterio e escuer</u>	-16	17	18	
, A		••		
-20	0.0311131	0.0315058	0.0303450	
<u>-19</u>	0.0320050	0.0321471	0.0280771	
-18	0.0323936	0.0318400	0.0321995	
-17	0.0387377	0.0274356	0.0290400	
-16	0.0423374	0.0309779	0.0291646	
-15	0,0356632	0.0278477 0.0301204	0.0338258 0.0402334	
	0.0298374 0.0348258	0.0465179	0.0544700	
-13 -12	0.0481607	0.0700497	0.0858292	
-11	0.0572813	0.0599676	0.0672238	
-10	0.0680570	0.0540092	0.0488212	
-9	0.0787570	0.0638308	0.0555349	
-8	0.0988841	0.0984423	0.0911435	
-7	0.1305907	0.1287067	0.1327503	
-6	0.1547458	0.1446573	0.1458467	
-5	0.1741192	0.1472550	0.1438692	:· ·
-4	0-2647177	0.2428830	0.2192468	
-3	0.4257984	0.3579899	0.3203534	· · · · · · · · · · · · · · · · · · ·
-2	0.4673993	0.4908851	0.4760160	
-1	0.6648124	0.6595109	0.6315914	
0	1.0507628	0.8238309	0.6892039	
<u> </u>	0.8344093	0.7885109	0.6777073	
2	0.4961061	0.5859755	0.5866534	
3	0.4887014	0.4632540	0.4502878	
4	0.3813454	0.3154534	0.3017457	
5	0.1832388	0.1814306	0.1757539	
6	0.1147905	0.1246388	0.1247753	
	0.1095425	0.1110759 0.0881704	0.0958781 0.0687791	
8 9	0.1044279 0.0825533	0.0001704	0.0820645	•
10	0.0647154	0.0745781	0.0821974	
. 11	0.0521436	0.0623040	0.0613520	
12	0.0553628	0.0592090	0.0413795	
13	0.0553251	0.0652672	0.0448618	
14	0.0503517	0.0531498	0.0382531	
15	0.0381850	0.0388871	0.0323350	
16	0.0302166	0.0304137	0.0308131	,
17	0.0238342	0.0266291	0.0296844	
18	0.0253851	0.0230591	0.0250677	
19	0.0261074	0.0284068	0.0286068	
20	0.0259861	0.0285486	0.0316625	
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P —		Ti	IE CORRECTED SPE	CTRUM.	(F-STAR)
		COLUMNS ,19 1	TO 21		
		19	20	21	STARTS SAFE
	-20	0.0313828	0.0285176	0.	
	-19	0.0272223	0.0264370	<u> </u>	
	-18	0.0325598	0.0279430	0.	
	-17 -16	0.0315641 0.0285395	0.0245279 0.0243104	<u> </u>	
	-15	0.0283343	0.0325789	0.	
	-14	0.0467582	0.0443348	0.	
	-13	0.0574596	0.0509646	. 0.	Section 1986
•	-12	0.0749854	0.0556984	0	
	-11	0.0605105	0.0476754	0.	•
***************************************	-10	0.0599040	0.0614403	0.	,
	-9	0.0722839	0.0796949	0.	· ·
	-8	0.0786199	0.0737540	0.	
	<u>-7</u>	0.0835455	0.0706128	0.	
	-6,	0.1083271	0.0971388	0.	
		0.1889523	0.1977556	0.	• .
	-4	0.2447439	0.2482429	0.	•
	-3	0.3177641	0.2944727	<u> </u>	·
	-2	0.5152062	0.5370281	0.	
************	<u>-</u> }	0.5323121	0.5524264	0.	
	0	0.4797850	0.4387938	0.	
	2	0.5414037 0.5377045	0.4721823 0.5207231	<u> </u>	
	3	0.4081773	0.4206351	0.	·
	4	0.2946810	0.2884251	0.	
	5	0.2096932	0.2188908	0.	•
	6	0.1383121	0.1268437	0.	
	7	0.0971311	0.0817463	0.	
***************************************	8	0.0785695	0.0744080	0.	
	9	0.0855457	0.0756488	0.	
	10	0.0803386	0.0757377	0.	
	.11	0.0598366	0.0611414	0.	
	12	0.0363083	0.0363007	0.	
	13 14	0.0289255	0.0257001	0.	
	15	0.0318487. 0.0416948	.0.0318515 0.0451661	0.	
	16	0.0417981	0.0433553	0.	
	17	0.0339542	0.0359854	0.	•
]	18	0.0301690	0.0337683	0.	
	19	0.0302155	0.0308973	o.	
	20	0.0307728	0.0297898	0.	
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ě.			ABERDEEN 2		-16 2-
	سمسية خي درس	T	HE CORRECTED SP	ECTRUM, (F-STAR)	and the second s
الله الله الله الله الله الله الله الله			and the second second	Printing and the first the first of the fir	
	2	COLUMNS -2	TG -0		Company of the Compan
3	newspace	-2	-1		and the state of t
			•	•	
ر ميا يا يا • الله الله الله الله الله الله الله الل	-20	0.0743054	0.0708393	0.0595038	**************************************
3.35	-19	0.1084097	0.1011915	0.0774864	•
A S war	-15	0.1268283	0.1255911	0.1102049	and the state of t
ا میلاد	-17	0.1325654	0.1074179	0.1030235	
	-16	0.1383869	0.1188853	0.1025851	
	-15 💹	0.1356610	0.1426038	0.1165331	
	-14	0.0962707	0.0924363	0.0958991	•
·	-13	0.0758306	0.0744857	0.0928864	
	-12	0.0735147	0.1082429	0.1578135	
	-11	. 0.1051727	0.1561569	0.2129002	
•	-10	0.1660107	0.2312500	0.3257459	
<u> </u>	9	0.2022388_	0.3225246	0.5990151	
-	-8	0.1991903	0.3408803	0.6383777	
f.,	7	0.2179398_	0.3522593	0.5761743	
j 4 ≱ 4 ,	-6	0.2838203	0.4288296	0.7009215	
-	5	0.5990654_	0.8160261	1.0321509	
, . F	-4	1.2983709	1.9814663	1.8760685 5.1154030	
	3	3.8927696 18.3147862	18.7220552	17.0516348	
	-2 -1		123.1675091	142.2067280	
`	- <u>1</u>	79.0035963 112.8339157	488.8446007		
•	1	51.7477341	117.0818882	142.2067184	
<u></u>	··· • • ·	14.0895617	18.1684973	17.0516338	
ģ	2	3.0069965	4.1838364	5.1154027	•
·		1.0872036	1.4740255	1.8760685	
5	5	0.4810254	0.7867245	1.0321509	•
<u>ہ</u>	´	0.3692588	0.5770292	0.7009215	The state of the s
Ħ	7	0.3690671	0.5198358	0.5761742	
	- <u>i</u>	0.4099894	0.5900781	0.6383777	
·	9	0.4464726	0.6279109	0.5990151	
· F. ——	10	0.3199062	0.3685296	0.3257459	
. d	. 11	0.1594400	0.2036361	0.2129002	
·	12	0.1257499	0.1664957	0.1570135	The second control of
<i>3</i>	13	0.0978101	0.1165352	0.0928864	•
	14	0.1197419	0.1135722	0.0958991	The second secon
Ğ.	15	0.1624007	0.1037734	0.1165331	
Ť -	16	0.1752184	0.1155001	0.1025851	The second secon
\$	17	0.1430601	0.1328912	0.1030235	
. •	18	0.1037102	0.1047692	0.1102049	
Ä_	19	0.0597437	0.0573658	0.0774864	
;	20	0.0631260	0.0562004	0.0595038	

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THE CORRECTED SPECTRUM, (F-STAR) COLUMNS 1 TO 3 1 2 3 -20 0.0542004 0.0431259 0.0541328 -19 0.0573658 0.0597437 0.0620134 -18 0.1047692 0.1037102 0.1033848 -18 0.1047692 0.1037102 0.1033848 -16 0.1155001 0.1752184 0.1753325 -15 0.1037734 0.1024007 0.1735457 -14 0.1135722 0.1197419 0.1194233 -13 0.1165353 0.0978101 0.0853028 -12 0.1664957 0.1257499 0.0899367 -11 0.2036361 0.1594400 0.1254520 -10 0.3685297 0.3199062 0.2219425 -9 0.6279109 0.4464726 0.3319846 -8 0.5990781 0.409984 0.3432074 -7 0.5198358 0.3690671 0.2521163 -6 0.5770292 0.34692588 0.27734223 -5 0.7867244 0.4810254 0.3552686 -4 1.4740256 1.0872036 0.5594031 -3 4.1838356 3.0009964 1.078453 -1 117.0820522 51.7477684 26.0047507 0 488.8443451 112.8338547 37.6409599 1 123.1676817 79.0036469 41.7939910 2 18.7220521 18.3147684 11.4639678 -5 0.4860261 0.5990654 0.3881913 -6 0.428229 0.228399 0.2681913 -7 0.3522593 0.2179398 0.2168312 -7 0.3522593 0.2179398 0.2168312 -7 0.3522599 0.2179398 0.2168312 -7 0.3522599 0.2179398 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3522599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.2168312 -7 0.3523599 0.2179399 0.208434		e 9 *) - "	in the second se	and the second s		
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	Q	3 2		-	<u></u>	
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C)	[5]	•	,		
C		13		gallen alle de la company	reambana marana dhandar managhara da alla a dadhina abangginggana alla, sasawa na sas	
The state of the s	C	ri		A second	*** * * * * * * * * * * * * * * * * *	The state of the s

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	•	ABERDEEN	2	-164-				
ago como por a magnificação	TI	HE CORRECTED SPE	CTRUM, (F-STAR)					
COLUMNS 4 TO 6								
SULUMNO TIU U								
	4	5	•					
-20	0.0457599	0.0596948	0.0765529					
-19_	0.0666980	0.0729976	0.0769338					
-18	0.1169901	0-1107575	0.0883637	,				
-17	0.1588560	0.1484034	0.1044740					
-16	0-1523806	0.1348309	0.1073795	,				
-15	0.1689065	0.1334806	0.1042968	·				
-14	0.1366928	0.1184284	0.1164389	1				
-13	0.0844844	0.0719081	0.0798920	•				
-12	0.0683147	0.0621214	0.0625942					
-11	0.0948227	0.0925573	0.0773210					
-10	0.1700942	0.1598467	0.1192758	and the second s				
-9	0.3098031	0.2225577	0.1481581					
-6	0.3082578	0.2429700	0.1886050	to the desired				
-7	0.1982380	0.2021276	0.1766616					
~6	0.2216075	0.2115998	0.1908398	entralisment de de antique plante vans de la manue comme date de antecesar plante valgar. La				
-5	0.2593486	0.2410887	0.1982629					
-4	0.2339643	0.2284039	0.2269167	e an en en e				
-3	.0.3118317	0.3380941	0.4108939					
-2	1.5370810	0.7853413	0.7672264	The state of the s				
-1	13.4320400	4.7202604	1.8567151					
0	29.5646057	10.3107179	3.6183653					
1	17.3779602	6.0812518	2.7026721	•				
	4.4459181	1.5477606	0.8803145	and the second s				
3	0.8856216	0.4536080	0.3366179					
4	0.3489801	0.2953416	0.2973811	and the same of th				
5	0.2935626	0.2687614	0.2240237	•				
6	0.2718551	0.2146341	0.1714333	the first term discussion against solve controlling using the strength of any or any or any or any or any or a				
7	0.1925958	0.1651374	0.1885550	;				
8	0.1512076	0.1253232	0.1685889	the state of the s				
9	0.1231862	0.0886270	0.1001424					
10	0.0861853	0.1021914	0.0941297					
11	0.0700615	0.1186531	0.1214157					
12	0.0604645	0.0869069	0.0861822	The second secon				
13	0.0507162	0.0581194	0.0621388					
14	0.0934525	0.0688769	0.0613179	<u> </u>				
15	0.1539358	0.1463764	0.1146208	•				
16	0.1424854	0.1645110	0.1287344					
17	0.0842270	0.0929589	0.0927549					
18	0.0906569	0.0857476	0.0694453					
19	0.0700307	0.0901880	0.0736147	• .				
20	0.0634247	0.0717676	0.0630734	- H - H - H - H - H - H - H - H - H - H				
TA	V•VU37671	4141414	V+0030137					

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ABERDEEN 2 -165-THE CORRECTED SPECTRUM, (F-STAR) COLUMNS 7 70 7 ~20 0.0779450 0.0702540 -19 0.0412511 0.0772379 0.0762345 -18 0.0550229 0.0739695 0.0792051 -17 0.0709494 0.0815242 0-1115655 -16 0.0966265 0.0904842 0-1103225 -15 0-0956075 0.1009992 0.0933306 -14 0.0791423 0-1345340 0.1170037 -13 0.0838525 0-1114357 0.1086832 -12 0.0852126 0.0643960 0.0628287 -11 0.0643875 0.0535888 0.0529512 -10 0-0650909 0.0906188 0.0819466 ~9 0.0809099 0-1235246 0.1053113 0.1128981 0-1269084 0.0882933 -7 0.1093672 0-1362246 0-1040126 -6 0.1002015 0.1636980 0.1261586 -5 0.1120657 0.1587473 0.1528416 0.1459550 0.1982889 0.2175793 -3 0.2203231 0.3467149 0.3386810 0.5767537 0.3150238 0.4392785 0.3333858 1.2312998 1.2389344 0 1-1998470 2-1718406 2.2505217 2.2952055 1.7514337 1.5808729 1.3426357 0.7441375 0.6933921 0-4422924 0.2989253 0.2684439 0.1972207 0.2470260 0-1744666 0.1562545 5 0.1772216 0.1229896 0.1047611 6 0-1520257 0.1113383 0.1665049 0.0874907 0.1154192 0.0832458 0-1475700 0-1462481 0.1610498 0.1025291 0-1297143 10 0.1689104 0.0870549 0-1141291 0-1271403 11 0.1038550 0.1412319 0.1256425 12 0.0819072 0-1096164 13 0.0936498 0.0648871 0.0733373 14 9-0564295 0.0529463 0-0570007 15 0.0481087 0.0673286 0.0531554 0.0593181 16 0-0701145 0.0645512 17 0.0880391 0.0731455 0.0629795 18 0.0794358 0.0560138 0.0538049 19 0.0507355 0.0554999 0-0628431 20 ~ 0.0512291 0-0563080 0.0689162 0.0592425 æ

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		HE CORRECTED SP	ECTRUM, (F-STAR)	
	COLUMNS 10	TO 12	Market Marketin species and the second	entro o esta en el el compositorio de la compositorio de la compositorio de la compositorio de la compositorio
	10	11	12	الرواز والمعطور والمطارع المراوية والمواطور المواطور والمعطورين
20 :	0.0329113	0.0468523	0.0544895	annian due ammaten de la color
19	0.0432168	0.0492131	; 0.0553971	
18	0.0634390	0.0496456	0.0498323	and the second second to the second s
17	0.0709226	0.0545143	0.0543456	• •
16	0.0593880	0.0516675	0.0566203	was a made of the properties and the management specialists and management in the same
15	0.0551954	0.0462717	0.0488550	•
14	0.0644350	0.0611262	0.0658748	and the second s
13	0.0721539	0.0728107	0.0713602	• •
12	0.0647588	0.0668528	0.0608379	The second secon
11	0.0599462	0.0594648	0.0637703	
10	0.0645157	0.0555962	0.0682686	
-9	0.1039605	0.0773276	0.0618212	. ``
-8	0.1283221	0.1022240	0.0623817	
-7	0.1130167	0.0972665	0.0634608	•
-6	0-1016905	0.0776932	0.0581986	and the same and the same the same and the s
-5	0.1308435	0.1060245	0.0926227	
- 4	0.1813410	0.1297573	0-1694139	
-3 -2	0.2351729	0.1838987	0.1403964	
-2 -1	0.2750446	0.2812425	0.2318199	
-1	0.8030274	0.4992883	0.4591503	
0	1.5489755	0.8274261	0.7544518	
2	0.9378727 0.2849361	0.6087899	0.5245765	
3	0.1318528	0.2501873	0.2095568	
Ž	0.1241122	0.1005287	0.1180660	
5	0.0984853	0.1089465 0.1110954	0-1376976	
6	0.0744010	0.0876829	0.1404540	and the same of th
7	0.0733866	0.0855023	0.1105902	
8	0.1327740	0.1012614	0.0950854	
9	0.1581308	0.1103856	0.0870602	
10	0.1259675	0.1001263	0.0811972 0.0679559	and the same of th
11	0.0846776	0.0687673	0.0600799	
12	0.0572382	0.0483100	0.0461186	
13	0.0331673	0.0349817	0.0465628	
14	0.0333653	0.0458632	0.0684812	
15	0.0555764	0.0579867	0.0771130	
.6	0.0793651	0.0623798	0.0659217	And the second s
7	0.0697057	0.0615752	0.0553414	
8	0.0446186	0.0531121	0.0453614	
9	0.0363422	0.0495601	0.0551729	•
20	0.0409697	0.0565958	0.0670757	-

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	34,70 (1) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	ABERDEEN 2 CORRECTED SPI		-167-
			CIRON, (F-31A	
	COLUMNS 13 TO	15	a management and a contract and a co	
	13	14	15	
20	0.0507649	0.0558101	0.0609762	
19 18	0.0589422	0.0630147 0.0727929	0.0555049 0.0604606	*
17	0.0562209	0.0659051	0.0546799	r r
16	0.0543323	-0.0511936	0.0426224	
15	0.0493482	0.0440673	0.0488565	4
4	0.0478058	0.0397762	0.0546052	· ·
13	0.0604091	0.0568695	0.0487706	•
12	0.0617766	0.0537394	0.0409612	
1	0.0689581	0.0482607	0.0431318	. '
10	0.0780562	0.0563899	0.0472318	······································
.9	0.0695712	0.0735614	0.0686677	
-8	0.0617082	-0.0729162	0.1021610	
·7	0.0549458	0.0575715	0.0992100	
·ę	0.0574915	0.0606951	0.0882639	•
5	0.1036484	0.1145544	0.1158405	
4	0.1130048	0.1468276	0.1643009	
·3 ·2	0.1185529	0.1526297	0.1811955	
1	0.1702687 0.5291860	0.2200188 0.6059876	0.2782209	
ō —	0.9229181	0.9402079	0.6978213	
ĭ	0.5371938	0.5712734	0.4852295	
2	0.1930569	0.2511726	0.2341281	grown was also as the second of the second o
3	0.1202352	0.1404055	0.1626876	•
<u> </u>	0.1093020	0.1130340	0.1627232	the statement of the section of the
5	0.1017616	0.1000296	0.1427137	
6	0-1039946	0.1096540	0-1048742	an expension of confidence on the confidence of the confidence of the confidence on
7	0.1332768	0.1490417	0.0970293	
8	0.1228376	0.1391282	0.1022208	The contract of the contract o
9	0.0930778	0.0977513	0.0968247	•
0	0.0752548	0.0722761	0.0642455	the state of the s
1	0.0537159	_ 0.0580680	0.0583874	officer-security and the second of the secon
2	0.0447456	0.0512273	0.0518142	4
3	0.0455969 0.0571465	_ 0.0370120	0.0383926	
4 5	0.0771405	0.0370090 0.0498786	0.0390092 0.0442643	
6	0.0667835		0.0376353	
7	0.0462331	0.0345660	0.0354370	
8	0.0426053	0.0437614	0.0531889	
9	0.0486324	0.0525564	0.0688738	
0	0.0544402	0.0584294	0.0803557	- Maringong Maringong or many are all the area

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		ABERDEE	N 2	: -168-
· · · · · · · · · · · · · · · · · · ·	TH	E CORRECTED SPE	CTRUM, (F-STAR)	manasata - Manasa paga galat - 1 - 1 - manasa g
	COLUMNS 16 T	0 18	The same of the sa	an dia
	COLUMNS 10 1			• • •
, , , , , , , , , , , , , , , , , , , ,	16	17	18	
-20	0.0564720	0.0445448	0.0468086	
-19	0.0488736	0.0457570	0.046668	The same of the sa
-18	0.0464629	0.0487280	0.0521151	•
-17	0.0426271	0.0461848	0.0567265	.
-16	0.0374983	0.0403006	0.0575694	
-15	0.0481531	0.0394381	0.0455485	
-14	0.0525481	0.0267730	0.0290285	
-13	0.0407076	0.0314085	0.0324440	
-12	0.0378099	0.0408653	0.0436177	• •
-11	0.0478515	0.0452818	0.0490129	
-10	0.0501335	0.0457988	0.0507989	
9	0.0657108	0.0647022	0.0618348	
-8	0.0931780	0.0742906	0.0781412	
7	0.1117697	0.0905736	0.0908332	
-6	0.1144931	0.1077837	0.0899780	•
	0.1082215	0.1047951 0.0996431	0.0930708	
-4	0.1302014		0.1084555	
3	0.1460629	0.1092954	0.1880670	
-2	0.2722140	0.2424313	0.5351751	
1	0.4534730 0.5379362	0.6378690	0.7811717	
0	0.33777352	0.3614116	0.4067258	
	0.1957638	0.1742753	0.1526653	mar e allega apriante anno 1, ao mandres (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
2 3	0.1578220	0.1202279	0.0858762	
	0.1653563	0.1050160	0.0561780	and the state of t
5	0.1540561	0.1190470	0.0748437	
6	0.1096702	0.1239566	0.1041308	
7	0.0746916	0.0809661	0.0751672	
_ 8	0.0648574	0.0589414	0.0695611	-designed of the substitution of the second of
9	0.0717796	0.0782791	0.1035656	
_10	0.0702646	0.1066202	0.1345761	THE RESIDENCE OF THE STATE OF T
. 11	0.0762640	0.1007971	0.1060895	•
- 12	0.0708744	0.0803806	0.0624421	
13	0.0541303	0.0559694	0.0509553	•
14	0.0433287	0.0472520	0.0479298	ment to a second
15	0.0396695	0.0415885	0.0371477	
16	0.0354601	0.0396010	0.0388768	and the second state of th
17	0.0432649	0.0435266	0.0424250	
18	0.0611219	0.0478673	0.0371990	and the second of the second o
19	0.0777287	0.0636794	0.0387296	
20	0.0866289	0.0704404	0.0423171	•
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	The second secon	and a constant of the second o	ABERDE	EN 2	-169-
_	e de la composición del composición de la composición de la composición de la composición del composición de la composic				
Q			THE CORRECTED	SPECTRUM,	(F-STAR)
•		OLUMNS 19	TO 21		
, j	•	OFOUND 13			
,	3	19	20	21	
i ;				• • • • • • • • • • • • • • • • • • • •	
	-20	0.0573713	0.0595749		
:	-19	0.0442506	0.0425680		
	-18	0.0403490	0.0345807	0-	
! 0	-17 -16	0.0532820 0.0639919	0.0432708 0.0547322	O	
;	-15	0.0510622	0.0490659	0.	
0	•	0.0438430	0.0496635	ŏ.	
	-13	0.0470606	0.0531043	0.	
	The same of the sa	0.0501503	0.0565429	0.	and the second s
	-11	0.0569855	0.0582737	0.	
	-10	0.0647727	0.0640764	0.	
:	•	0.0576368	0.0567302	O	
Ç		0.0726975	0.0695997	0.	
		0.0928982	0.0943792	<u> </u>	
		0.0731095	0.0686386	0.	,
0	·	0.0793438 0.1005666	0.0755718	0.	
i	•	0.1003686	0.0942739	0.	
		0.1083256	0.0784992		18
•	14*	0.3573219	0.2320560	o.	
:		0-6604056	0.4724736	0.	
		0.3761336	0.2977621	0.	
11	.a	0.1388816	0.1249842	0.	
•	4	0.0815905	0.0819385	<u> </u>	
		0.0505607	0.0620932	0.	·
		0.0596325 0.0627025	0.0726189	0	
. 0		0.0493885	0.0323885	0.	
. •	7 hamman	0.0688376	0.0593809	, 0.	
i		0.1045835	0.0960993	. 0.	
0 i		0.0976389	0.0793709	0.	
	11	0.0666847	0.0537599	0	
- ;		0.0477027	0.0495032	0.	
0 ;		0.0581133_	0.0612034	·0•	
		0.0501321	0.0514926	0.	
0		0.0323214 0.0325525	0.0334341 0.0281517	<u>0:</u>	····
	**	0.0367869	0.0285680	0.	
		0.0313281	0.0248403	ŏ	
		0.0283274	0.0244529	0.	,
		0-0303714	0.0251610	0.	
	. 			allinguage and the second and the second and the second	or resources that approved the particular section (see a straight approved to the contract of
	<u> </u>			o	Million Million State - The Control of the Control
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• .	<u> </u>				million and the second and the secon
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KNOX 1
                       THE CORRECTED SPECTRUM, (F-STAR)
           COLUMNS
                        TO
              -2
  -20
           0-1272107
                            0-0864814
  -19
                                            0.0844855
           0-2010619
                            0.1304863
                                            0.0909311
  -18
           0.1932322
                            0.1628502
                                            0-1228667
           0.1419995
                            0-1474041
  -16
                                            0.1581444
           0.1998643
                            0.1856363
  -15
                                            0-1526455
           0-2280674
                            0-1900898
  -14
                                            0.1333186
           0.1790974
                           0.1497012
  -13
                                            Q-1082088
           0.1149561
                           0.1033960
                                            0.0900108
           0.1197504
                           0.0936101
                                            0.1059158
           0.2663172
                           0.2114950
                                            0.1611224
 -10
           0.5925099
                           0.5385110
                                            0-2940069
           1-1497118
                           0.9830367
                                            0.5480918
           1.3676932
                           1.2360228
                                            0.8796579
          1.0122930
                           1-1040975
                                            1-1046756
          0.7162222
                           0.9113233
                                            1.2338899
          0.7232239
                           0.9385373
                                           1.3122940
          1.4249908
                           2.0962933
                                           2.3556215
          3.5167292
                           6-9591979
                                           7-1229646
          8-1449935
                         20.1443622
                                          25-2384474
         14.3806163
                         67.6661806
                                         194.5325775
         19.1320381
                        192-1740417
         15-5062995
                         55.6951785
                                         194.5325794
          9.9295180
                         16.0265045
                                         25.2384479
          3.9568C72
                          5.2020443
                                          7-1229647
          1.3362298
                          1.9177225
                                          2.3556215
         0.6849147
                          1.0358326
                                          1.3122940
         0.5550323
                          0.8582522
                                          1.2338899
         0.4830385
                          0.7305766
                                          1.1046756
         0-3848409
                          0.5747663
 9
                                          0.8796579
         0.3077211
                         0.3810546
10
                                          0.5480918
         0.2401798
                         0.2227862
                                          0.2940069
11
         0.2104368
                         0.1960426
                                          0.1611224
12
         0.1557494
                         0-1568108
13
                                          0.1059158
         0-1168016
                         0.1097577
                                         0.0900108
14
         0.1335438
                         0.1139984
15
                                         0.1082088
         0.1808916
                         0.1462657
16
                                         0.1333186
         0.2744058
                         0-2101301
                                         0.1526455
17
        0.2458591
                         0.2051493
18
                                         0-1581444
        0.1376253
                         0.1318486
19
                                         0.1228667
        0-0688005
                         0.0850268
                                         0.0909312
20
                         0.0769692
                                         0-0844855
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PIP CALL

	_			The same of the sa		
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! •	•		· 李紫云龙海山。 · · · · · · · · · · · · · · · · · · ·		_	and the second s
Ç			and the same of th	KNOX		-171-
Y		5	•	THE CORRECTED	SPECTRUM, (F-	STAR)
			COLUMNS		The second secon	
10	}	<u> </u>		1 10 3	i i i i i i i i i i i i i i i i i i i	
• !		OF .	1	2	ر از از از ۱۳۳۰ از از ا	
io		-20	The second secon	-		
, _		-20	0.0769692	777.00017	0.07463	
· ·			0.0850268 0.1318486		0.07508	7 8 4 7 1 8 7
		-17	0-2051493	0.1376253	0-13073	70
4.4	12	-16	0.2101301	0.2458591	0.203784	6
	1	-15	0.1462657	0.2744057 0.1808916	0-208084	6
	18	-14	0.1139984	0.1335438	0.157364	1
j	S.	-13	0.1097578	0.1168016	0.121045	
. ~	144	-12	0.1568108	0.1557494	0.106603	3
1	18	-11	0-1960426	0.2104368	0.096705 0.135805	
	12	-10	0.2227862	0.2401798	0.193214	
~	12	-8	0.3810546	0.3077211	0.280780	
	13	-7	0.5747663	Q.3848409	0.416186	
, _	-	-6	0.7305766 0.8582522	0-4830385	0.4850791) · · · · · · · · · · · · · · · · · · ·
-	Ĭ.	-5	1.0358326	0.5550323	0.461747	
٠.	,-	-4	1.9177226	0.6849147 1.3362299	0.4693919	
~.	يَ مُ	3	5-2020433	3-9568072	0.8099744	
$\overline{}$	- 1 Z	-2	16.0265019	9.9295180	1.9856123	
			55.6952553	15.5063092	4-1207636 5-3C01947	
	121	0	192.1739407	19.1320283	5-3724184	
			67.6662760	14.38C6255	6.2729246	
	3	3	20.1443591	8.1449934	5.0321791	the second of th
i 🔾	4	4	6.9591967 2.0962933	3-5167292	2.2442219	
•	LVO L	5	0.9385373	1-4249908	1-2115444	the second secon
. ~	11	6	0.9113234	0.7232240	0.9731313	
j U	¥	7	1-1040975	1.0122930	0.9000147	-
	F /	8	1.2360229	1.3676933	0-8863152	
~.	- E	_ <u>9</u>	0.9830367	1.1497118	0.9755242	Ì
, –	CEN	_ 11	0.5385110	0-5925099	0.4927411	A COURSE OF THE PARTY OF THE PA
	10,	12	0.2114950 0.0936101	0-2663172	0-2685119	
. 0	Z :	13	0 • 1033960	0.1197504	0.1403630	of the control of the state of
	OF5:	14	0.1497012	0-1149561 0-1790974	0.0957424	
Э	12	15	0.1900898	0-2280674	0.1553587	
	1	16	0.1856363	0.1998643	0.2145525	The second section of the s
	1:5	_17	0.1474041	0.1419996	0.2121421	
\odot	Ħ_	18 - 19	0.1628502	0.1932322	0.1619064	any dipendent of the state of t
. 1	1	20	0.1304863	0.2010619	0.1669440	į
· , '	·		0.0864814	0.1272108	0.1273565	The contract of the contract o
9	15		andresian and and an experience of the second se	man constant		
	12					The state of the s
^	8		A STATE OF THE PARTY OF THE PAR	CONTROL OF THE STATE OF THE STA	e i e e e e e e e e e e e e e e e e e e	
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	34	•	1	•		
~	13		e marine a supran per many construction of the		·	
.,	4			•	the state of the second	
ļ	5		And the second of the second o			
_ 1	<u> </u>	- Xing samen		•		en elegan er en en elegan er e
and the second of the second o		The second section of the second section of the second section of the second section s	The same of the sa			

	•	KNOX	1	-172-
the designation of the control of th	e e mas e e e e e e e e e e e e e e e e e e e	THE CORRECTED S	PECTRUM, EF-STA	
	-			
1	COLUMNS 4	TO 6		
-	4	<u></u>	يد الله المسالة	
,		,		· ·
-20	0.0598721	0.0534923	0.0571420	
-19	0.0716032	0.0693797	0.0753291	
-18	0.1284656	0.1191770	0.1242553	
-17 -16	0.1776155 0.1752970	0.1405380	0.1305327	
-15	0.1146493	0.0930880	C.1180612 O.0973491	•
-14	0.0690591	0.0589222	0.0893358	
13	0.0683922	0.0528928	0.0703528	
-12	0.0672077	0.0611197	0.0587076	The state of the s
-11	0.0937755	0.0816663	0.0535272	ng an ng tillion allimi paga gaman gampagan alimota a samahaliga a nin mga kasan alimongga an anasis
-10	0.1280717	0.0888543	0.0768712	•
-8	0.3265937	0.1238017 0.1849999	0.1G80584 0.1402236	
-7	0.4103553	0.2493693	0.1571921	
-6	0.4287665	0.3160897	0.1985019	. S. e. e. manufactura de la caracteria de la proposición de la caracteria
5	0.4172999	0-3145055	0.2128228	
-4	0.4968512	0.3330056	0.2255911	
3	0.8184550	0.4242771	0.2496342	
-2 -1	1.2525779	0.5171044	0.3374651	•
	1.6466C21 2.1918710	Q.5588398 Q.8540229	0.3388922 0.4299859	
1	4.0949972	2.1946326	0.9294254	
2	4.1386778	3.0180928	1.6836408	a symmetry of the manufacture of the first section of the section
3 _.	1.6899977	1.5513428	1.3773080	
	0.7858310	0.6087477	0.7653279	The state of the s
5	0.8303102	0.6894067	0.6218869	and the second s
7	0.6691388	0.7645505 0.6768697	1.1036397	•
	0.5156120	0.4389988	1.2714997 C.6411617	
9	0.5230557	0.3232734	0.2620016	
10	0.3750592	0.2886550	0.1937584	garante de la composition della composition dell
	0-2145048	0.2061212	0.1412944	
12	0.1124205	0.1111544	0.1050124	
13	0.0771137	0.0806668	0.1206692	en e
14 15	0.1243051 0.2011105	0.1172672	0.1251296	
16	0.2792737	0.1888996 0.2944583	0.1495726 0.2124978	
	0.2535326	0.2993751	0.2269423	
18	0.1399991	0-1547816	0.1444613	
19	0.0987554	0.1027557	0.1176172	•
20	0.0823059	0.0884054	0.0973968	ويغوا
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	www.recessions.com	* * * * * * * * * * * * * * * * * * * *		
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		and the state of t	•	A CONTRACTOR OF THE CONTRACTOR
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•			KNOX 1	÷ .		173-
P		, , , , , , , , , , , ,	THE CORRECTED S	PECTRUM, 1F-S1	TARI	der up in dend Oberhande
	1 -	COLUMNS 7	TG 9	ار در در این		ere contains to make the control of
0		7		9		
0		A AR4444	A 888444	A A24944		
·	-20 El -19	0.0564868 0.0744033	0.0501840 0.0632723	0.0507205 0.0584369		
0	-18	0.1110722	0.0852098	0.0700733		
	-17 -16	0.1174556	0.0973151 0.0875643	0.0819857		
	-15	0.0906858	0.0717018	0.0693983	The state of the state of	
0	-14	0.0833703 0.0680823	0.0622659 0.0626518	0.0600472 0.0543479	44	
	-12	0.0568287	0.0612461	0.0604138		
C	-11	0.0565950	0.0571142	0.0474702		-
	-10 -9	0.0905506 0.1007125	0.0683797 0.0796094	0.0421562 0.0645835		,
O	-8	0.1244402	0.1042024	0.0903090		
	-7 -6	0-1466364	0.1362894	0-1157512		
\mathbf{C}	-5	0.1665140	0.1465228 0.1256715	0.1238415 0.1C06429		
•	-4	0.1478299	0.1113609	0.0928473		
C	-3 -	0-1591024 0-1884144	0.1398960 0.1497379	0.1036195 0.1213056		
-	C -1	0.2152143	0.1591764	0.1458143	2	
o .	0	0.2841817 0.3819932	0.1842551 0.2155680	0.1580712 0.1896794		
	2	0.7446987	0.3753708	0.2860966	an inches to a substitute for the control of	
)	3_	0.9600953	0.6063291	0.4312045	grown to be a	and the second s
ر	S S	0.7043938 0.5093301	Q.5438879 Q.3517390	0.4542093 0.2995677		
<u>.</u>	12 6	0.7425468	0.3218443	0.1932292	The second secon	
Ď	7_	0.9779208 0.5976501	0.3337389 0.2808618	0.1372194 0.1331633		
_	9_	0.2583123	0.2148783	0.1337742		
,	10	0.1445123	0.1623767	0.1684509	,	
	12	0.1061132	0.1431529 0.1252833	0.1819801	e ga antiditation arrangia (m. ac. e e e escalarista).	
)	13	0.1437617	0-1082140	0.1019401	a ne order branes produce any \$100.1 and	
	15	0.1418444 0.1236866	0.1090803 0.0995698	0.0934615 0.0938206	•	
)	16	0.1274320	0.1136747	0.1679087		
	17	0.1353126 0.1205490	0.1237658 0.1030120	0.1269655 0.1022178	in appearance with a size of the market and an advantage.	<u>.</u>
>	目19	0.0901769	0.0431680	0.0605207		n delle i de une de delle dell
	20	0.0663836	0.0485954	0.0442519		
;	6	,	and the same same of the same of the same same of the		A CONTRACTOR SEASON	
	OE N.	hard of the state	No reason at the same		The same description of the same	mer e a militario i militario.
	2 .	,				1
	1	THE RESERVE THE PROPERTY OF THE PARTY OF THE			The second secon	OPA V STOP VINNERAL METERS - A VAR HAN
	0	randi v in agriprani arvini — e re min an e				Transcratting of concess of
٠.	4	The second of th				
	T CO	•			— a viluation	Liver to appear a
1. 186	And the same of th	and which was the state of the				· · · · · · · · · · · · · · · · · · ·
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	\$ 	ing ang Angara. Pangangan sa kalang ang manang ka	ł	KNOX	1		-174~
·		Same and the same	THE	CORRECTED	tpers	TRUM, LF-ST	AO N
•. • [141		-conkected	JP EU I	NORT TE-31	-n-/
٠.	(3)	COLUMNS 4 10	TO	12	**	,	
· ·				•		•	
		10		11		12	
*.	-20	0.0485654		0.0399553		0.0341383	
	g -19	0.0632739		0-0529608		0.0436185	
	-16	0.0760804		0.0616187 0.0483566		0.0549902	•
	-10	0.0592501		0.0465203		0.0508764	
	-15	0.0609360		0.0601275		0.0697712	
	5 -14	0.0541081		0.0604749		0.0748228	
	-13 -12	0.0510636		0.0586150 0.0704272	'	0.0634225	en a la companya de la companya del companya de la companya del companya de la companya del la companya de la c
	-11	0.0522239		0.0620729		0.0553393	•
	-10	0.0357476	1.	0.0514252		0.0546550	
	-6	0.0515943		0.0487047		0.0370917	
	-7	0.0773878		0.0559409		0.0474973	
	-6	0.0799135	-	0.0587309		0.0667351	The second section of the section of the second section of the section of
	-5	0.0685097		0.0493805		0.0493351	and the second s
,	-3	0.0710147 0.0741985		0.0480933		0.0402422	
	-2	0.0941277		0.0763607		0.0608828	The second of th
	-1	0-1277868		0.1006561		0.0714529	4
1	0	0-1284681		0.0925775		0.0608936	
;	2	0.1190692		0.0690194		0.0579227	· · · · · · · · · · · · · · · · · · ·
	<u> </u>	0.2599189		0.1448315	,	0.1533360	
ļ	4	0.3724217		0.2621220		0.2191775	
!	j 5	0.3394437		0.3246724		0.2940645	to the control of the property and the control of t
1	7	0.0888014	!	0-0986167		0.1314930	
	8	0-0883848		0.0863915		0.0898081	The second secon
	10	0.1131821 0.1433C25	: 1 .	0.1053096		0.0843158	
ł	10 11	0.1693444		0.1074536 0.1353450		0.0964557 0.1305075	
	12	0.1576024		0.1968305		0.2151757	
:	13	0.1355276		0-1727906		0.2119473	and the second second
. !	14	0.1090328		0.1083221		0.1304261	
1	16	0.0791723		0.0771308		0.0653007	The same of the second
٠,	17	0.0884564		0.0623479		0.0519741	
	월 16 김 19	0.0813527 0.0576C28		0.0579593		0.0528159	_
•	20	0.0412005		0.0616686	,	0.0565913	
ì							
			,	· ·		•	•
	5	r Contrar (para para da la contrar de la co		* * * * *			• . •
1	2						
ļ		*	•				47
- 1	3					•	
:	£						

	and the same of the same	KNOX	1 * *	-175-
	1	HE CORRECTED	SPECTRUM, (F-ST	AR)
	COLUMNS 13	TO 15	e e e e e e e e e e e e e e e e e e e	The second secon
-	er de na desta constituente.		ر المحمد الم	
	13	14	15	#\$# <u>*</u>
-20	0.0284687	0.0322691		
19 -18	0.0311517	0.0282661	•	
-17	0.0401660	0.0323075 0.0403152		
-16	0.0480080	0.0374338	0.0400783	
15	0.0613508	0.0412006	0.0452535	
-14	0.0684958	0.0414497	0.0323572	
-13	0.0644631	0.0457504	0.0371529	
-12 -11	0.0507377	0.0572471	0.0482397	
-10	0.0497C08 0.0522952	0.0660495 0.0570788	0.0686000	
-9	0.0421722	0.0570788	0.0695390	1
-8	0.0452506	0.0440618	0.0572399	
-7	_ 0.0462291	0.0394464	0.0497817	
-6	0.0523241	0.0353917	0.0391719	
5 -4	0.0452867 0.0433260	0.0382255	0.0334249	- A new company of a company and approximately applicable, relations, which considers
-3	0.0518094	0.0315016 0.0388089	0.0296438 0.0416997	
-2	0.0567804	0.0572971	0.0615985	
-1	0.0761259	0.0815055	0.0766169	
0	0.0612259	0.0715219	G.0886182	
l	0.0556533 0.0927885	0.0625944	0.0883034	the transfer is referenced to be an experienced to
3	0.1654249	0.0789636 0.1204147	0.0655195 0.0593194	
	0.1826915	0.1360820	0.0943194	Commission of the commission o
5	0.2214255	0.1204352	0.0919957	
6	0.2130904	0.1035011	0.0630223	கிய சடி நிருந்திகள் இருந்து ஆண்ணுக்கிறன். இருந்தில் இருந்தி
7	0.1587235	0.1094743	0.0820838	ter e commente de la formación describir
. 8 ·	0.1194315	0.1219123	0.0923271	
10	0.0766357	0.1131050 0.0843818	0.0936134 0.0800377	THE ROME CONTRACTOR OF STREET,
11	0.1052957	0.0727709	0.0684234	
12	0.1711366	0.1003697	0.0623784	in an incomplete solven and all the second property of the second solven and the second
13	0.1793737	0.1030696	0.0549608	y
14 15	0.1154749 0.0780432	0.0743919 C.0610681	0.0527153	
16	0.0666699	. C.0568860	0.0543666 0.0397881	ethorries of military conditing conditions of the contract companions and contraction.
17	0.0564270	0.0533845	0.0397300	
18	0.0601330	0.0545349	0.0467567	alle and the second section of the second section is a second section of the second section at the second section is a second section at the section at th
19	0.0453051	0.0695204	0.0564650	market and the second control of the second
20	0.0673247	0.0737883	0.0573761	
alle ergel dittallelige og men greken i de en er		· · · · · · · · · · · · · · · · · · ·		 seed teacher on the first and analysis of a sign of
		e we recommended to the second of the second		enter an arminimental and the state of the s
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	marrows and the contract of marrows and the contract of			t de 1996 et bestet des a
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÷		*	KNOX 1	·	
2.7	<u>.</u>				-176-
£, 1		•	HE CORRECTED SI	PECTRUM, (F-ST	AR)
		COLUPNS 16	TC 18		The second secon
- (16	17	18	en e
	-20	0.0387676	0.0362570	0.0301265	ار المراجع الم
	-19	0.0398422	0.0374602	0.0371986	•
,	-18	0.0378125	0.0376572	0.0465919	the second secon
- 1	-17	0.0398475	0.0376286	0.0473649	
1	-16	0.0538551	0.0433784	0.0432568	Note that the same and the same same same same same and the same same same same same same same sam
	-15	0.0611732	0.0550376	0.0377001	
1 1	-14	0.0486392	0.0500128	0.0376566	The state of the s
	-13	0.0463868	0.0430294	0.0352414	
	-12	0.0393438	0.0377297	C-0387886	And the second s
1	-11	0.0458879	0.0431520	0.0479858	•
1 2	-10	0.0532641	0.0450224	0.0470383	والمناور المراوية المهيم والمراوية المناورة المراورة المراور المراور المراور المراور المراور المراور
	-9	0.0652575	0.0624218	0.0565721	
	-8	0.0795126	0-0745079	0.0646492	Control of the second s
-	-7	0.0771183	0.0800352	0.0616840	. 1
, ,	6	0.0586801	0.0646976	0.0435060	and the second section is the second section of the section o
1 -	-5	0.0386320	0.0429029	0.0291759	•
1 -		0.0472100	0.0586301	0.0411238	والتيب ويودون فسنوب بالمتعا يعيدهانه أماحت
14	~_ ~3	0.0507776	0.0628344	0.0570150	•
	-2	0.0670296	0.0698278	0-0616415	والويد الدالية يتوفيها والمتاها المستحدد المستحدي
		0.0934516	0.0986776	0.0665297	
7 /	0	0-1028590	0.0976407	0.0770950	والمراد والمستحدة والمستحد والمستحد والمستحدد والمستحد والمستحدد والمستحد والمستحدد والمستحد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد والمستحدد وال
15	11 may 🛔 ,	0.1112169	C-1111828	0.0932637	
1	2	0.0770464	0.0780362	0.0647454	The second secon
, 1		0-0484705	0.0469258	0.0385972	*
	•	0.0868403	0.0715782	0.0512806	And the control of the second of the control of the
	?	0.1153084	0.1043859	0.3632617	
-	•	0.0776980	0.0917937	0.0795121	the state of the s
1	san I il	0.0616303	0.0586053	0.0669318	•
٠	ਰ	0.0558662	0.0486230	C-0591752	
	9	0.0608952	G-0496162	0.0523861	
7.	10	0.0838645	0.0673388	0.0451895	the first seek and a second second
. 5 -	!!	0.0791287	0.0660996	0.0433860	
. 2	12	0.0562468	0.0480152	0.0352000	· · · · · · · · · · · · · · · · · · ·
	13	0.0468131	0-0448044	0.0339244	
	14	0.0457168	0-0442016	0.0407049	• •
1	15	0.0444784	0.0418728	0.0464402	•
٠.;	16	0.0365774	0.0438191	0.0502657	• • • • •
(6)	17	0.0406204	9.0486731	0.0493279	
igu ogad oldon	18	0.0459661	0-0449832	0.0400872	• •
j. (†		0.0417674	0.0342783	0.0339377	
	20	0.0391068	0.0329399	0.0364138	• • • • • • • • • • • • • • • • • • •

MONTA PROCESSION

THE CORRECTED SPECTRUM, (F-STAR)

	COLUMNS 19 T	G 21	•	
	19	20	21	The second of th
-20	0.0372017	0.0440921	. a	Commence of the second
-19	0.0408050	0.0405318	Ğ.	4
-18	0.0423934	0.0356298	Q.	THE RESERVE AND A SECOND PROPERTY OF THE PROPE
-17	0.0382228	0.0319543	Ö.	•
-16	0.0365C11	0.6298433	Q.	The state of the s
-15	0.0368760	0.0409617	G.	٠.
-14	0-0448968	0.0600199	o.	The first of the control of the second of th
-13	0.0453724	0.0548783	0.	
-12	0.0442591	0.0459265	ā.	The first of the second with applications of the desire the second secon
-11	0.0429406	0.0409090	o.	
-10	0-0417502	0.0355348	0.	a time a live above to the games above agreement constitution and accompany and accompany and accompany are to
-9	0.0496844	0.0398904	0.	*
-8	0-0502407	0.0449174	O.	· my v. n. dersade, vin. ottopyrtalauspunken han de gebruiksprogen dan de gebruiksprogen gebruiksprogen van de
7	0.0373499	0.0401172	e.	
-6	0.0337309	0.0464373	0.	in the state of the second comments and the companion with the second of
-5	0.0286839	0.0419349	o.	
-4	0.0312596	0.0355824	C.	The community of the contract
-3	0.0463109	0.0475183	C.	
-2	0.0566657	0.0611135	0.	A THE COMMAND PROPERTY OF THE
1	0.0581802	0.0649105	0.	
0	0.0626728	0.0565123	G.	The state of the s
1 .	0.0669941	0.0443763	C.	•
2	0.0524302	0.0356022	0.	
3	0.0449135	0.0455810	0.	
•	0.0450785	0.0439474	0.	
5	0.0361847	0.0323148	G.	والرواد والمحاورة المحارة المحارجة المحارجة والمحارجة وا
6	0.0471168	0-0297697	c.	•
7	0.0679898	0.0496751	0.	ر وموجدت من دم د مست ه
8	0.0744614	0.0695827	Ģ.	
9	0.0576226	0.0643085	0.	A company of the control of the cont
10	0.0453341	0.0536131	0.	
11	0.0450861	0.0502529	0.	ا هاري والداري والجواد الدانيونيو والمستخدمة والمستخدمة والم
12	0.0399290	0.0454096	0.	
. 13	0.0329771	. 0.0378452	0.	en de la companya de
14	0.0380370	0.0379366	0-	į
15	0.0440640	0.0403837	. 0.	
16	0.0457613	0.0449186	0.	
17 .	0.0453822	0.0432554	0• .	ere i i i i i i i i i i i i i i i i i i
18	0.0421495	G-0405826	0.	*
19	0.0403090	0.0388356	0.	the second secon
20	0.0424230	0-0401267	0.	;
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1 Spectrum, (F-St	AR) -178-
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. <u></u> , 0	and the second of the control of the
0.0098282	
0.0098886	The state of the s
0.0090191	
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0.0142220	
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0.0170468	The second section of the second section is a second section of the second section sec
0.0195338	
0.0251610	The second secon
0.0384874	
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0-1141492	
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25.6133523	•
	the second secon
25.6133525	÷
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	n continued to the cont	SPECTRUM, (F-STAR)		
	COLUMNS	7_709	The second section of the section of the second section of the section of the second section of the se	in a constant and a c
	7	8	9	
-20	0.0055708	0.0040056	0.0003444	
- <u>1</u> 9	0.0058806		Annual and the second s	
-18	0.0075728			
-17	0.0102358			
-16	0.0093250		·	. .
-15	0.0067637			
-14	0.0074421			1
-13	0.0113890			
-12	0.0160415	0.0160213	0.0165610	
-11	0.0202103	0.0158084	0.0124013	
_10	0.0214587	0.0167385	0.0151182	
-9	0.0244247	0.0173951		·
8	0.0285246			
-7	0.0288256	0.0215414		
6	0.0322923			
-5	0.0543607	0.0513748		1 B
4 3	0.0805801 0.0977407	0.0586424		
-2	0.09.7407	0.0637066 0.0945958		
-1	0.4364416	0.3126429		
ô	0.6893901	0.5320568		•
_ i	0.3034022	0.2598935		
2	0.0509584	0.0583839		
3	0.0536547	0.0391014		*
4	0.0595241	0.0410529		
5	0.0377572	0.0319822		
	0.0244464_	0.0231119		-
7	0.0208051 0.0190152	0.0203003	0.0156303	
8	0.0190152	0.0184344 0.0165418	0.0183002 0.0175482	
10	0.0149851	0.0122962	0.0115644	e et
11	0.0109700	0.0080259	0.0091873	
12	0.0107463	0.0084023		
13	0.0109610	0.0100842	0.0084389	
_14	0.0089964	0.0089046	0.0089694	and the second services of the second service
15	0.0075422	0.0072336	0.0090436	
16	0.0072732			proprogrammed a participation of the state o
17	0.0074354	0.0077888	0.0076919	
18	0.0082868			
19	0.0075788	0.0092509	0.0076513	•
20	0.0069126	0.0084489	0.0072707	
			rementarisment destruction of the second des	
		Bridgen desiliki katempian omaka 1961 ya 1848 ka 614 i uzu suna 1	eners and in the contract of t	AND

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	COLUMNS 10 T	O 12	. ;	•
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	10	11	12	en crosse e como como e a como como e
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	the state of the s		- Area - Area	· · · · · · · · · · · · · · · · · · ·
-15	0.0084777	0.0067699	0.0083726	
14	0.0091316	0.0056095	0.0086290	
-13		0.0072846	0.0096065	
			0.0107783	
Ī				·
				-
-6				,
-5	0.0312338	0.0443127	0.0378318	ranner maarinen erikurina alaina kilapuninen minin kunna kunna kana erikur erikur erikur erikur erikur erikur I
4	0.0388518	0.0478531	0.0410468	•
-3	0.0382326	0.0338765	0.0296193	
				Carrier and the Sandra Statement Sta
				د د د د د د د د د د د د د د د د د د د
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2				- neredinamentalen - se auskantides ummakk i i i - i i i a se uprace augeb a gas P
4				•
5	0.0226209	0.0186365	0.0198596	THE ART IS NOT THE PERSON OF T
6	0.0148706	0.0185488	0.0193750	والمراور المراور المرا
7				
8				the analysis and the second of
•				,
				Andrew Control of the Angle of
13		0.0108260		en egene skapather for an er er er gener de er e de er er er er er er er
14	0.0102201	0.0103355	0 000/500	المراجع والمستوافق والمنافض المعامل المعامل المعاملات
15	0.0097534	0.0077752	0.0074099	
				en a sente de com a sur acuella colara por la compania de la colara del colara de la colara dela colara de la colara dela
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				eren un i la promagnação apenio.
	V440334FE	O&OOJ7J77	0.0003208	***
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	mente par l'une conservant le primarie de l'apprendique d	and district to a suparagraphy of the contract	many decision of the common section	* Photos Alban Nagara - 198 .
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	alaphanta, an diagram ()			e se man a se con a que como
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	and the second s	and the second of the second o	The second second second second second	* * ** · · · · · · · · · · · · · · · ·
	-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	CDLUMNS 10 7 10 -20	CBLUMNS 10 TO 12	CDLUMNS 10 TO 12

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		YUMA 1	y non e e e e e e e e e e e e e e e e e e	-184
	TH	IE_CORRECTED SPE	CTRUM, (F-STAR)	
	COLUMNS 16 T	0_18		
		••	• • • • • • • • • • • • • • • • • • • •	
		17	18	
-20	0.0053124	0.0054413	0.0064385	
-19	0.0049046	0.0048642	0.0058880	
18	0.0063394	0.0070588	0.0077913	
-17	0.0087570	0.0111685	0.0105063	,
16	0.0083041	0.0103840	0.0094908	
-15 -14	0. 0091472 0. 0107330	0.0076934 0.0087176	0-0077460 0-0085746	
-13	0.0106258	0.0087178	0.0094445	
-12	0.0132107	0.0124607	0.0101827	
-11	0.0134716	0.0149298	0.0112631	and the state of t
10	0.0115222	0.0157069	0.0137569	
-9	0.0158064	0.0212213	0.0191897	•
6	0.0175901	0.0229433	0.0196646	The contract of the contract o
-7	0.0172852	0.0176946	0.0162295	•
6 -5	0.0207765 0.0308260	0.0186560 0.0241325	0.0174060 0.0202031	
-4	0.0429821	0.0322002	0.0277164	
-3	0.0309149	0.0257560	0.0258754	Andrew weeks - the same a series of a seri
-2	0.0262336	0.0211998	0.0211503	
-1	0.1135899	0.0994579	0.1094569	
0	0.2147878	0.1977477	0.2265415	and the second s
1	0.1018378	0.0980103	0.1090359	
2	0.0235470 0.0299989	0.0230596 0.0288360	0.0202938 0.0233218	
4	0.0293833	0.0287771	0.0285280	
5	0.0222761	0.0218497	0.0226647	t den 1886 kalan - Adam - Arra verteba, subdeban de direkt de er ve
6	0.0185704	0.0183572	0.0192581	man in the supplier of supplier and a supplier and
7	0.0189440	0.0201244	0.0177935	
8	0.0165383	0.0197493	0.0172055	and compressing a second of the
10	0.0155831 0.0127518	0.0159720 0.0105702	0.0163217 0.0113408	
10	0.0132615	0.0109702	0.0092923	Temperatural of a symmetric special transfer to the state of the state
12	0.0137004	0.0118564	0.0084345	
13	0.0109242	0.0104634	0.0088872	
14	0.0082050	0.0091414		Militer of the Charles the Life on Anna III
15	0.0072201	0.0099402	0.0112286	
16	0.0071036	0.0091937	0.0104898	
17 18	0.0077907	0.0075868 0.0071149	0.0096135 0.0077422	
18	0.0079097 0.0072643	0.0069518	0.0067644	and the same of th
20	0.0072725	0.0075226	0.0072907	
		NAME AND ADDRESS OF THE PARTY O		
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	gagainean propaga er e e e e e agains an deresan dire se unit e escadi de e descri	and the same of the same of the	0 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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		YUMA 2	andre () in existing and an income of the constraint with the con	-18
	•	THE CORRECTED SP	ECTRUM. (F-STAR	
		ne mes e	er Tage III	
	COLUMNS 1	<u>70</u> 3		<u>.</u>
	1	2	3	
-20	0.0257581	0.0260068	0.0224641	
-19	0.0252637	0.0212593	0.0195531	
<u>-18</u> -17	0.0227287	0.0181283	0.0211938_	
-16	0.0215511	0.0206754 0.0303044	0.0227575	, * · · ·
-15-	0.0267861	0.0288332	0.0263944	
-14	0.0223772	0.0207981	0.0223498	•
-13	0.0286406	0.0229693	0.0214359	
-12	0.0338867	0.0284259	0.0300089	`
-11 -10	0.0274463	0.0307038 0.0260933	0.0374736	
	0.0328362	0.0272338	0.0250378 0.0254685	
-8	0.0366511	0.0388512	0.0426354	
-7	0.0490964	0.0545854	0.0600724	
6	0.0841018	0.0865057	0.0909467	-
-5 -4	0.1504073	0.1348946 0.2511723	0.1304313	
-3	0.7972376	0.5384576	0.3592684	
-2	4.2056738	1.9112819	0.9261363	
-1	89-1283188	12.9263000	5.2284830	
<u> </u>	672.8575592	36.2784133	11.2036422	
. 2	112.4181328 5.2234659	19.7790630 3.2905563	6.3572212 1.5291963	
— <u>-</u>	0.5369686	0.4659279	0.3847577	
4	0.1937058	0.1873067	0.1754918	
5	0.1323212	0.1735073	0.1239280	
<u>6_</u>	0.0911355	0.1255604	0.1028350	
7 8	0.0647117 0.0506486	0.0750989 0.0520555	0.0750960 0.0563139	
<u> </u>	0.0416611	0.0376462	0.0366827	
10	0.0330884	0.0352893	0.0323983	
11	0.0388961	0.0468598	0.0409988	
_12 _13	0.0365187	0.0472032	0.0402153	~
14	0.0278856 0.0210783	0.0314533	0.0230988 0.0193881	
15	0.0197896	0.0219180	0.0231767	
16	0.0188691	0.0187748	0.0209426	
17	0.0210580	0.0219783	0.0219651	
18 19	0.0256593 0.0224397	0.0241137 0.0182680	0.0237234 0.0151090	
20	0.0183268	0.0147366	0.0136286	
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	THE	CORRECTED SPEC	TRUM, (F-STAR)	
F.	COLUMNS 4 TO	6 12 2 2 2		
	4	5	6	
-20	0.0200626	0.0209604	0.0238335	
-19	0.0220355	0.0228892	0.0215575	•
-18	0.0251552	0.0262584	0.0200327	
-17	0.0211731	0.0218220	0.0204419	•
-16	0.0180966	0.0185838	0.0260739 0.0278255	<u> </u>
-15	0.0226016	0.0218300 0.0234162	0.0237929	- 5
-14	0.0262830	0.0240637	0.0248516	<u></u>
-13	0.0262457	0.0295940	0.0258222	
-12 -11	0.0370993	0.0329085	0.0283648	
-10	0.0277282	0.0347900	0.0310639	
9	0.0343710	0.0463176	0.0372396	
-8	0.0472195	0.0460210	0.0383938	
7	0.0613692	0.0432537	0.0307482	
-6	0.0914288	0.0737568	0.0442424	
-5	0.1378082	0.1210861	0.0852283	
-4	0.1742014	0.1501186	0.1194893 0.1398983	
-3	0.2513473	0.1926713	0.2228771	
-2	0.4952187	0.3226853 0.8887837	0.7172713	
-1	2.4322026 4.8605050	1.5137436	1.3309688	
	2.8594580	1.0130710	0.7539931	
2	0.8062273	0.4022199	0.2416112	
<u>—</u>	0.2668461	0.1915256	0.1520923	
4	0.1416561	0.1342140	0.1203092	
<u> </u>	0.0769659	0.1043983	0.1103967	
6	0.0703177	0.0687144	0.0638314	
7	0.0608616	0.0462275	0.0400677	
8	0.0439176	0.0303858	0.0373561	
9	0.0352531	0.0349914	0.0379583	
10	0.0331331	0.0414250 0.0311881	0.0332063	
11	0.0321218	0.0242520	0.0231320	
${13}^{12}-$	0.0295278	0.0278075	0.0222266	
14	0.0227308	0.0282051	0.0248142	
1 5	0.0289474	0.0314160	0.0251010	
16	0.0238083	0.0232069	0.0181346	
— <u>17</u> —	0.0216158	0.0193698	0.0155496	
18	0.0238125	0.0217194	0.0177821	
19	0.0179272	0.0237607	0.0226864	
20	0.0185148	0.0243981	U.UZ71771	and the second section of the second section of the second section of the second section of the second section
		The second section of the second section of the second sec	applicate trap are 4 - 1,000 an experimental from their magnification described the state of the	man constitute copy for the
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		with the A decisional state of the Contraction of t	- Consideration of the state of	
		en la la company de la company des	n reference provider. Material approximation and accommodation party and designation	

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	1	YUMA 2	n anggallinnya ng nga tilika ngga Plana na angga danih kamanilika majih ni hilika Pilika ng Plana ng Plana ng	-190-			
THE CORRECTED SPECTRUM, (F-STAR)							
, , , , , , , , , , , , , , , , , , , ,	COLUMNS 10 T	C 12		٠,			
	10	11	. 12				
20	0.0206071	0.0188024	0.0131575				
19	0.0180445	0.0150503	0.0119217				
18	0.0183661	0.0155179	0.0144257				
17	0.0194320	0.0156817	0.0174479	1			
16	0.0200362	0.0185519	0.0182282				
15	0.0257934	0.0267643	0.0271174				
14	0.0255288	0.0278310	0.0319631	, , , , , , , , , , , , , , , , , , ,			
13	0.0224729	0.0231386	0.0272709				
12	0.0234172	0.0271541	0.0285501				
11	0.0258223	0.0239992	0.0234075	•			
10 -9	0.0224863 0.0303731	0. 0237352 0. 0290386	0.0257430				
-8	0.0310484	0.0210388	0.0305905				
-7 —	0.0355716	0.0307854	0.0378331				
-6	0.0590238	0.0411724	0.0402740	•			
-5	0.0517438	0.0417285	0.0416417				
-4	0.0488805	0.0565718	0.0579823				
-3	0.0824568	0.0816876	0.0752420				
-2	0.1112949	0.1057457	0.0905810				
-1	0.3283863	0.3774868	0.3890289				
0	0.5813122	0.7548890	0.7954129				
1	0.3551423	0.4571938	0.4433824				
_2	0.1122926	0.1129276	0.0935344				
3	0.0632148	0.0618346	0.0596695	ı			
. 4	0.0531363	0.0516830	0.0488938				
5	0.0333731	0.0397350	0.0396755				
6	0.0328568 0.0411947	0.0443564	0.0467589 0.0400434				
,	0.0383495	0.0295526	0.0266644				
8	0.0290209	-0.0295528 -0.0287541	0.0276356				
10	0.0249386	0.0235412	0.0228713				
11	0.0291489	0.0355882	0.0293368				
12	0.0293531	0.0350980	0.0297541				
13	0.0268433	0.0269587	0.0205626				
14	0.0360714	0.0312276	0.0201815				
5	0.0350412	0.0298222	0.0198373				
16	0.0275324	0.0187184	0,0126664				
17	0.0234295	0.0210709	0.0180953				
18	0.0191902	0.0205205	0.0211826				
19	0.0170342	0.0185976	0.0173416	and the second of the same of the second of			
20	0.0176464	0.0192131	0.0174161				

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THE CORRECTED SPECTRUM, (F-STAR)

COLUMNS 13 TO 15

	13	14	15	
-20	0.0138135	0.0187913	0.0212156	
-19	0.0134232	0.0185610	0.0207277	
-18	0.0152793	0.0187267	0.0196237	
-17	0.0180948	0.0186202	0.0207598	
-16	0.0181455	0.0186447	0.0220631	
-15	0.0242389	0.0212137	0.0240542	
-14	0.0297746	0.0239821	0.0239079	
-13	0.0254224	0.0256801	0.0238894	The second se
-12	0.0259624	0.0290666	0.0273288	•
-11	0.0283969	0.0330108	0.0307678	
-10	0.0264109	0.0310343	0.0292628	!
-9	0.0254200	0.0278980	0.0274118	
-8	0.0333551	0.0346719	0.0314002	, i
-7	0.0414462	0.0407331	0.0373847	
-6	0-0427484	0.0390339	0.0372392	
-5	0.0371350	0.0331216	0.0379808	
-4	0.0494407	0.0460097	0.0410304	
-3	0.0659439	0.0573596	0.0488996	
-2	0.0919362	0.1062143	0.0958538	
-1	0.3155221	0.3246462	0.3354494	
0	0.5477226	0.4725607	0.5111475	
1	0.3075510	0.2809582	0.2826260	•
2	0.0981707	0.1142454	0.0945172	
3	0.0620384	0.0602905	0.0429307	
4	0.0376946	0.0298909	0.0238513	
5	0.0296627	0.0265874	0.0245691	;
6	0.0347422	0.0304845	0.0263233	
7	0.0375168	0.0315281	0.0252664	
8	0.0328973	0.0305252	0.0315638	
9	0.0280882	0.0276388	0.0317478	•
10	0.0268868	0.0253586	0.0260205	
11	0.0271181	0.0243949	0.0241802	
12	0.0279903	0.0279021	0.0297137	
13	0.0214373	0.0219197	0.0226373	,
14	0.0173777	0.0193397	0.0225023	
15	0.0186926	0.0228544	0.0245694	
16	0.0150734	0.0204429	0.0196998	Andrew was an over the same of
17	0.0161044	0.0196422	0.0235398	
18	0.0188831	0.0204996	0.0280960	and the contract of the second contract.
19	0.0172860	0.0176335	0.0207658	
20	0.0159938	0.0161634	0.0188156	

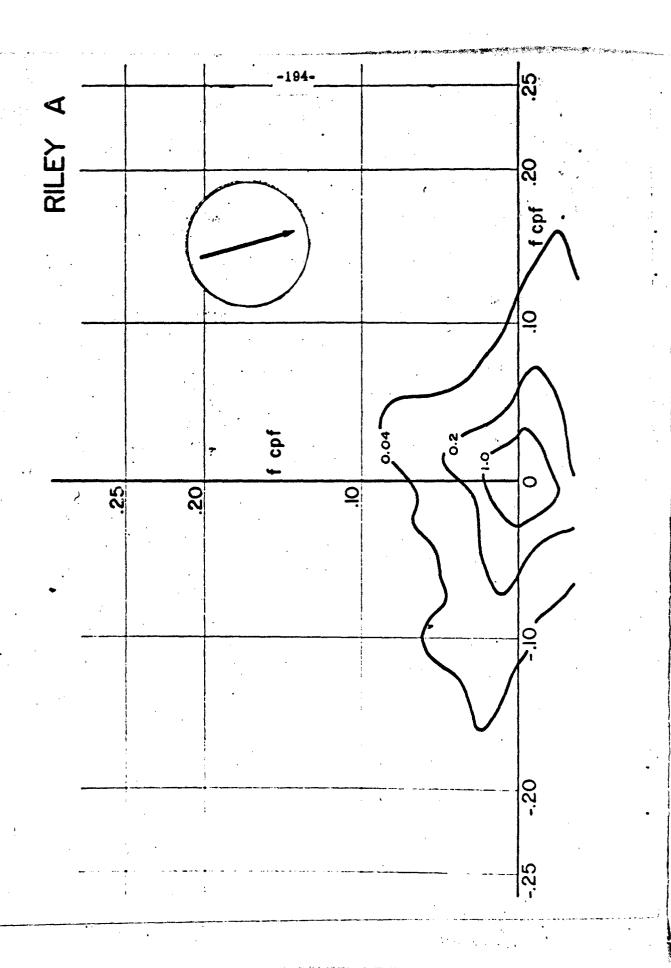
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	COLUMNS 16 1		ernony ti-diani	The street of th	
	16	17	18	į	
20	0.0175210	0.0141239	0.0150464		
19	0.0159988	0.0144360	0.0166053	•	
18	0.0167070	0.0159709	0.0194154		
17	0.0196668	0.0165106	0.0178439		
16	0.0209756	0.0172503	0.0186742		
15	0.0239890	0.0214877	0.0217651		
14	0.0247584	0.0208252	0.0186370		
13	0.0223732	0.0213959	0.0203281		
12	0.0209229	0.0226293	0.0261093		
11	0.0243640	0.0268335	0.0296806		
10	0.0294413	0.0278359	0.0260897		
-9	0.0274384	0.0272405	0.0282074		
-8	0.0270444	0.0259220	0.0289039		
-7	0.0340487	0.0371019	0.0429154		
-6	0.0383115	0.0449601	0.0498114		
-5	0.0406082	0.0469148	0.0509506		
-4	0.0407289	0.0396328	0.0433115		
-3	0.0448129	0.0395367	0.0378795		
-2	0.0831960	0.0868085	0.0733807		
-1	0.3073666	0.3452572	0.3738297	t.	
. 0	0.4633564	0.4906546	0.6155693		
1	0.2303791	0.2472107	0.3557941		
- 2	0.0651278	0.0794220	0.1115352		
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<u>`</u>	0.0277572	0.0265586			
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. 6		0.0299479	0.0304182		
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8	0.0357182	0.0387587	0.0342234		
	0.0394774	0.0285102	0.0248205		
10 11	0.0305088	0.0283102	0.0204559		
12	0.0324184	0.0290934	0.0243034		
		0.0238542	0.0232352		
13 14	0.0264600 0.0254737	0.0238434	0.0232587		
15	0.0254737	0.0211017	0.0232387		
	0.0161775	0.0211017	0.0208917		
16 17	0.0161775	0.0192246	0.0200203		
18	0.0214788	0.0192248	0.0205691		
19	0.0182629	0.0191882	0.0203691		
20	0.0167277	0.0180698	0.0174786		
	V.V.101211	V+V40U070	U-U17401J		

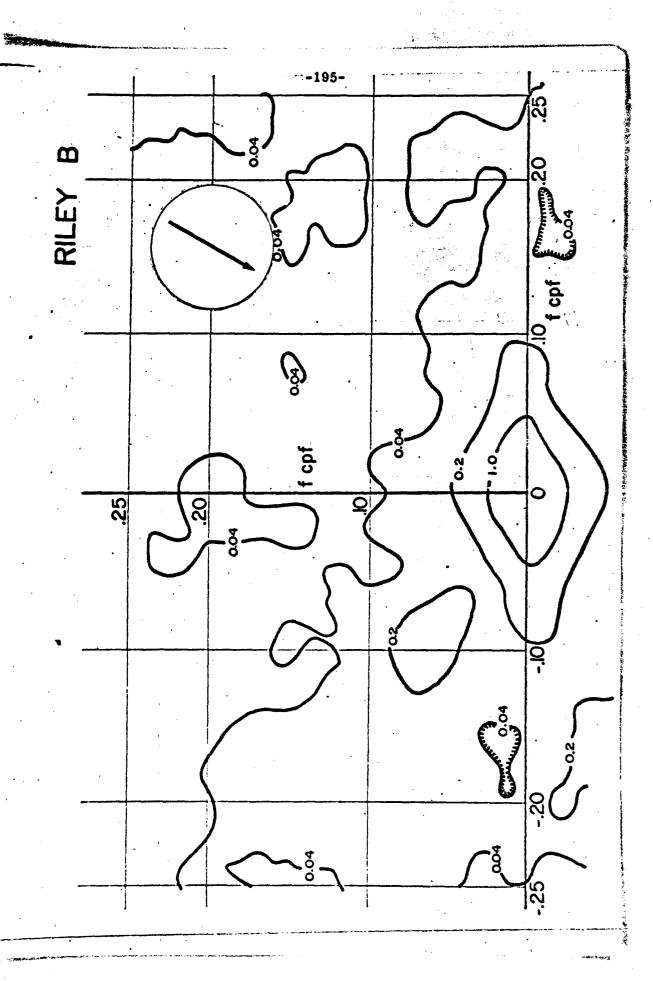
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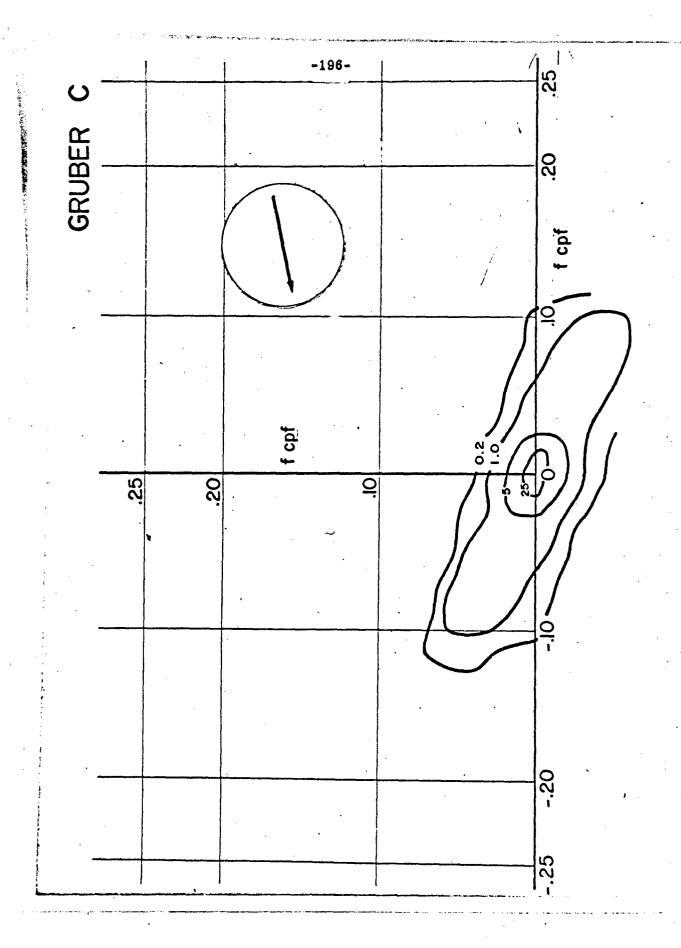
...

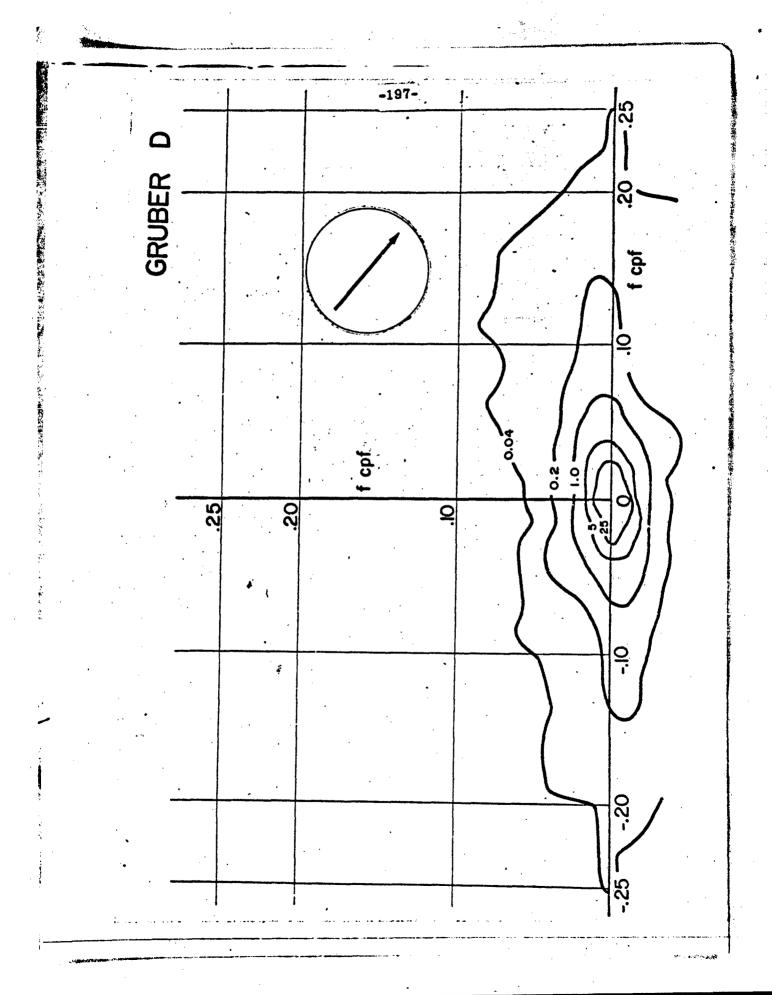
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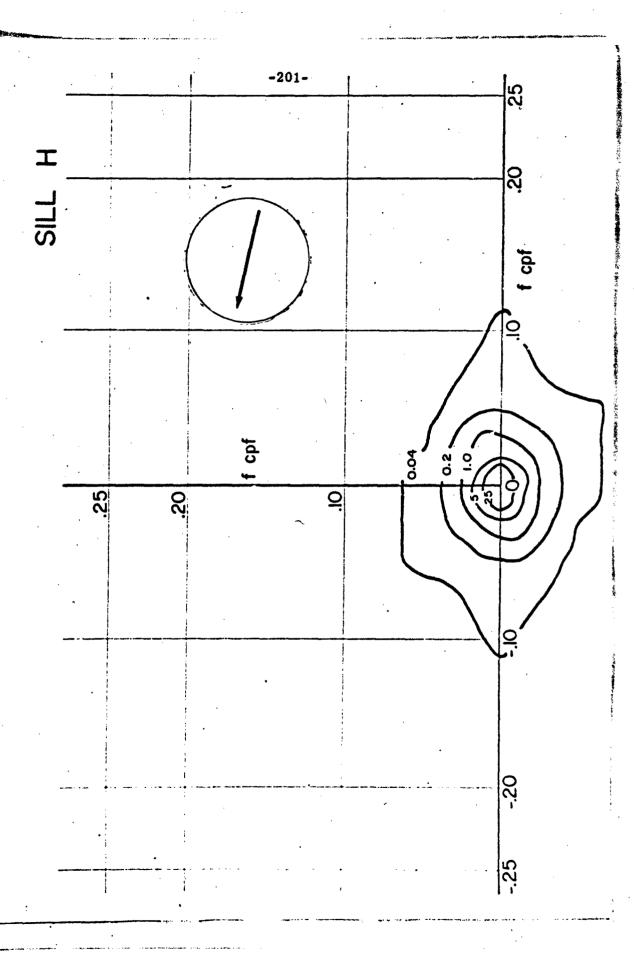
THE PERSON NAMED IN

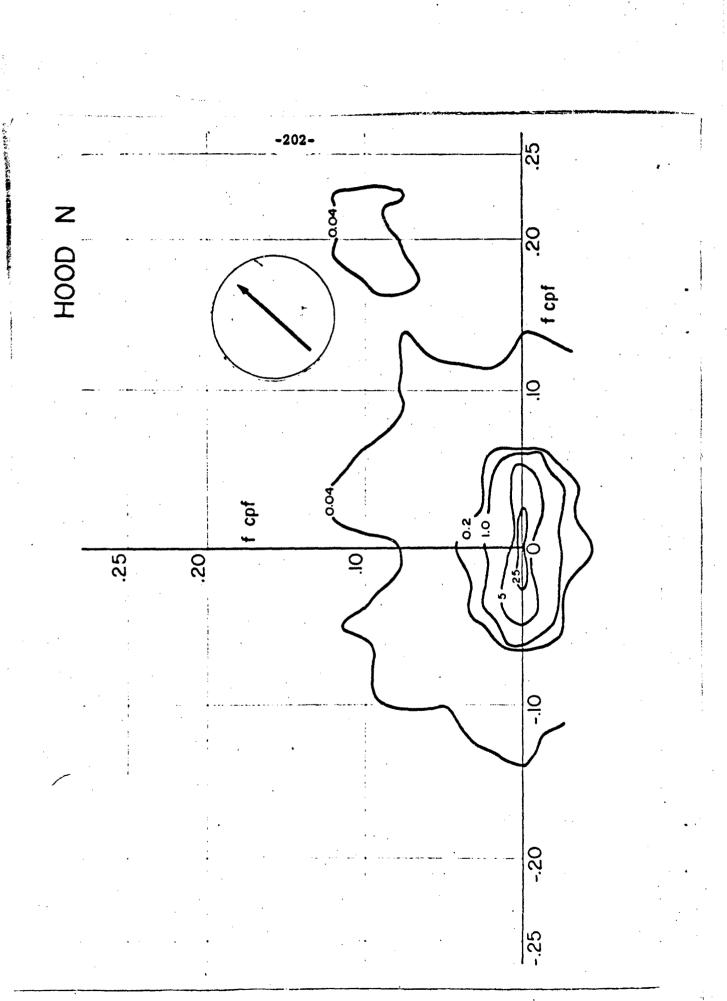


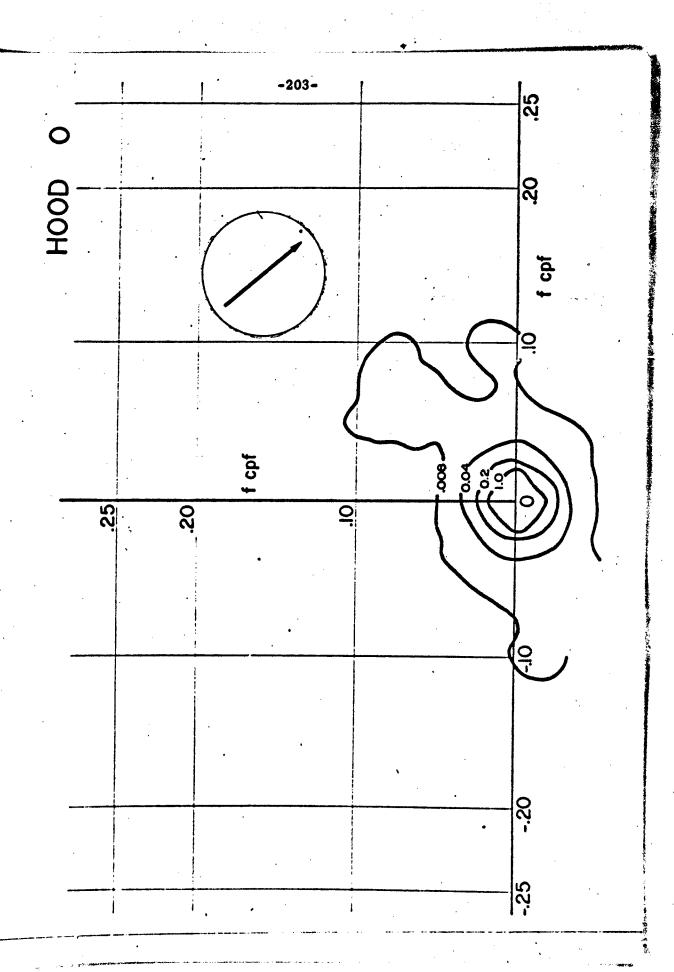


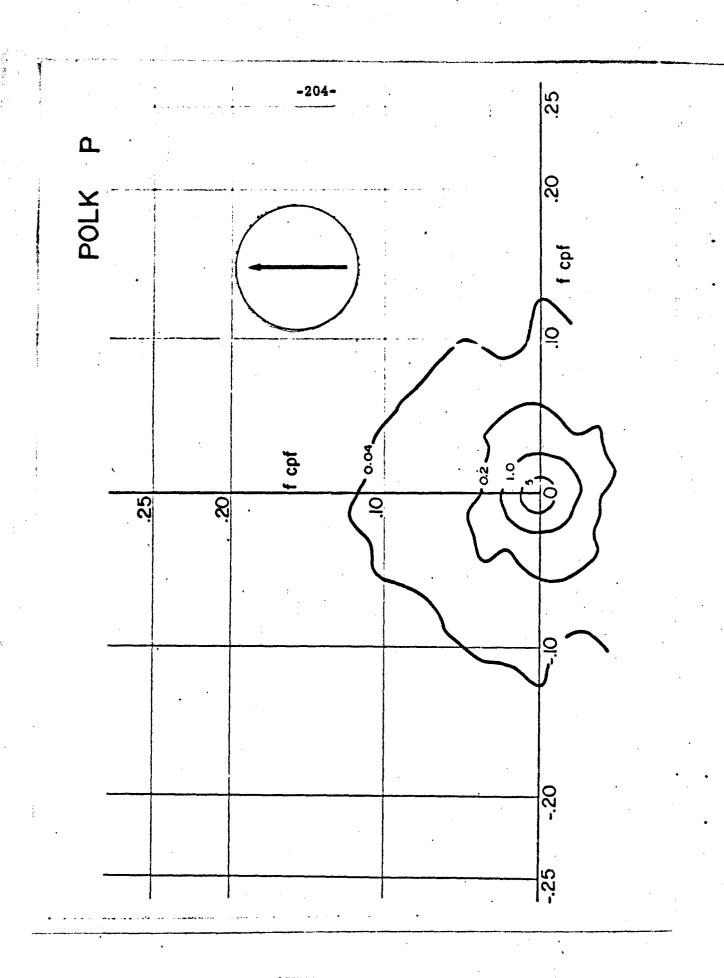


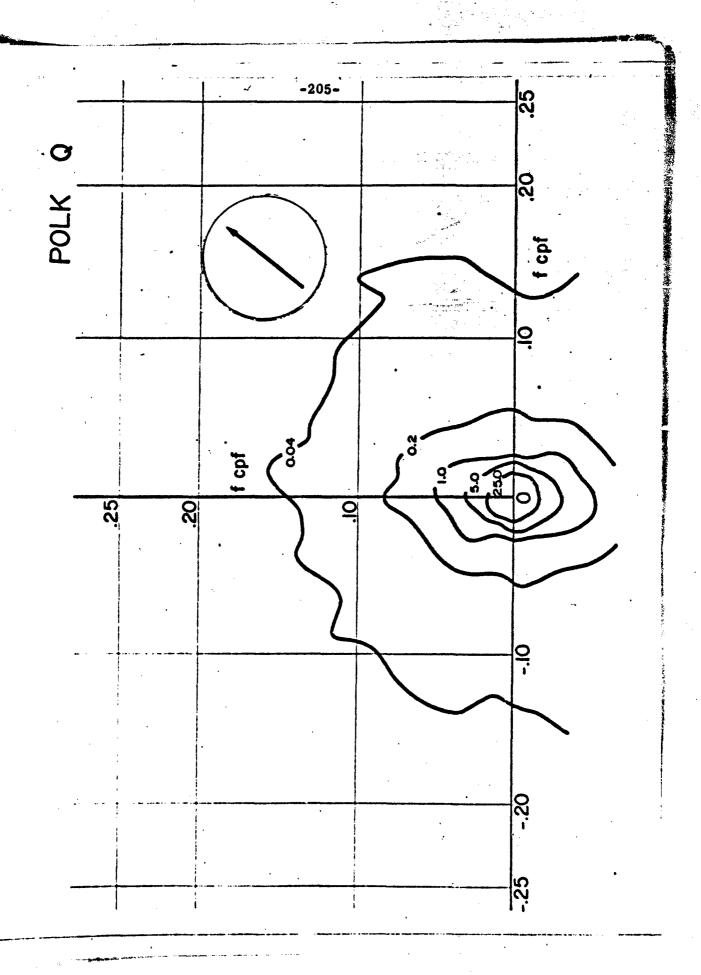


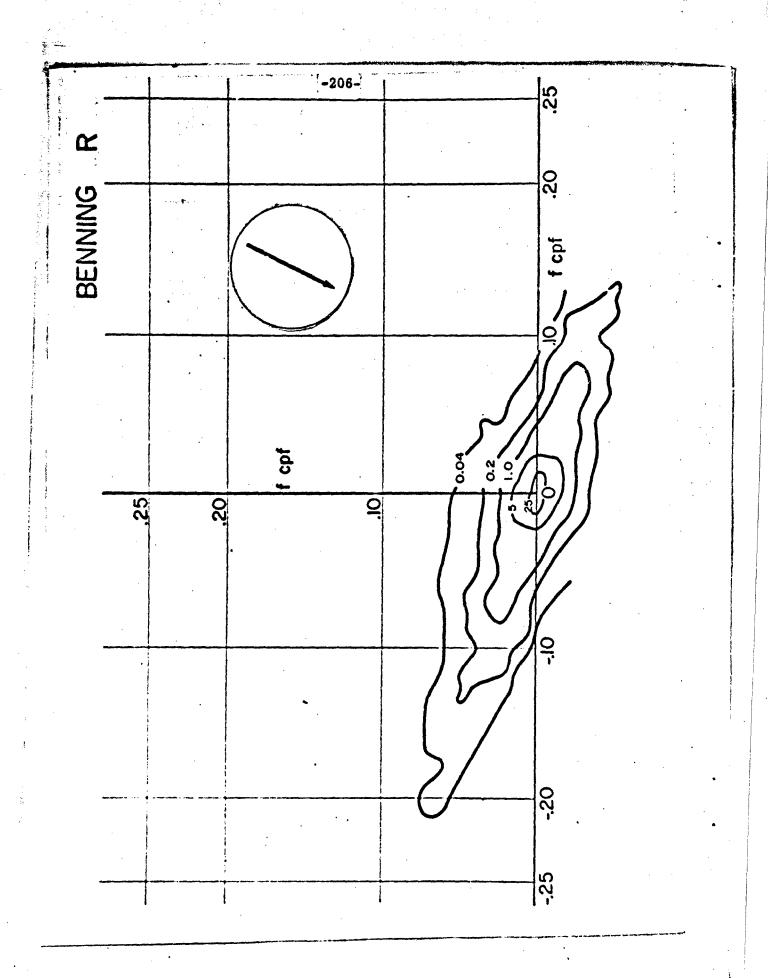


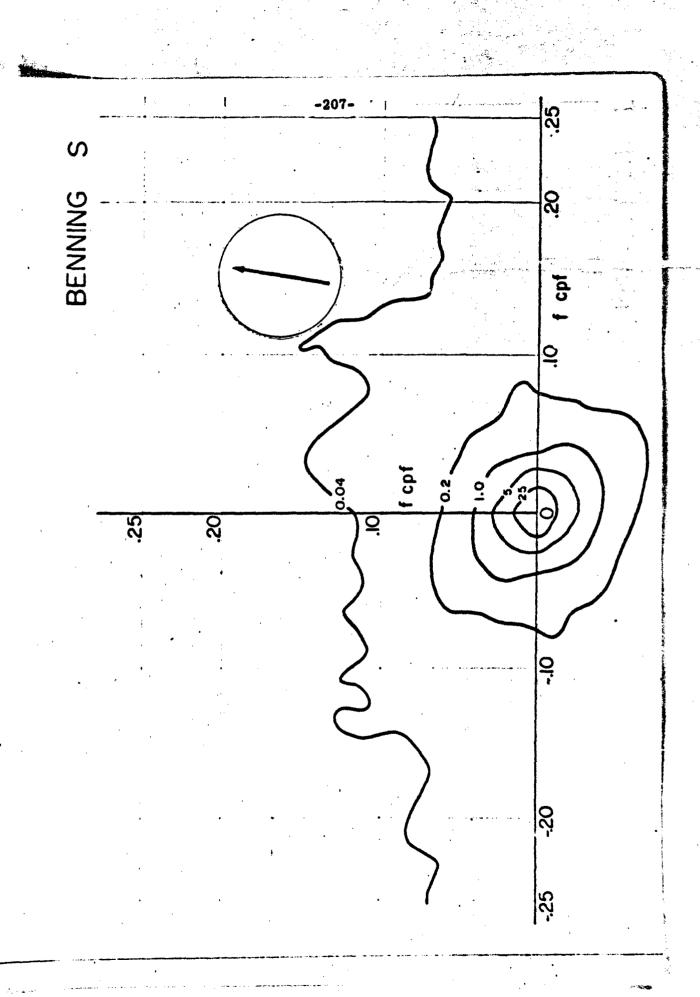


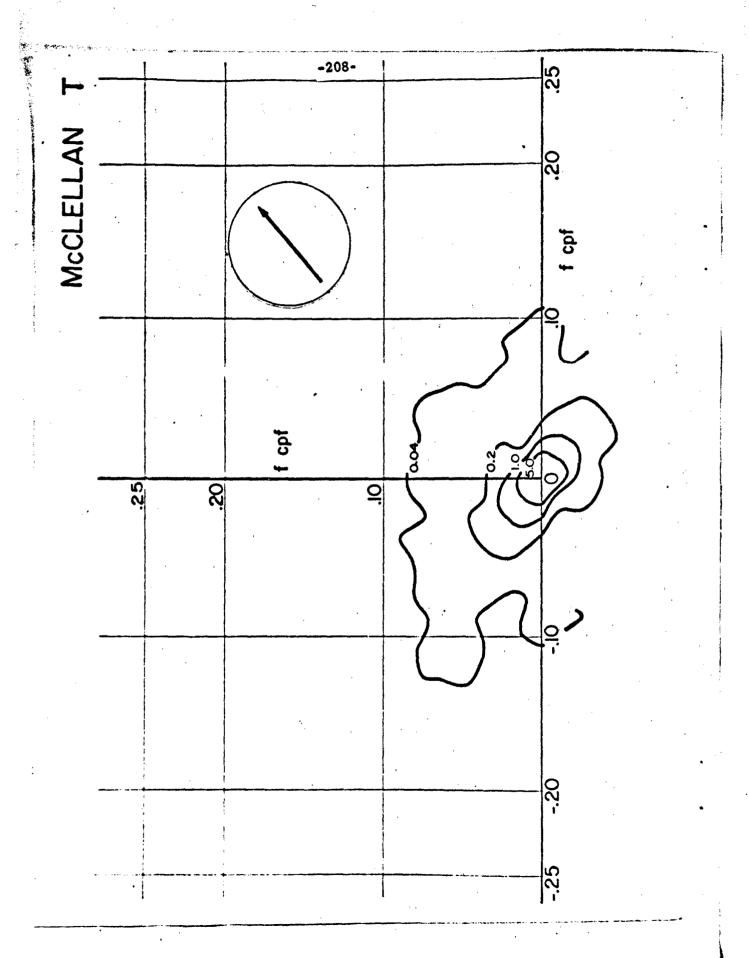


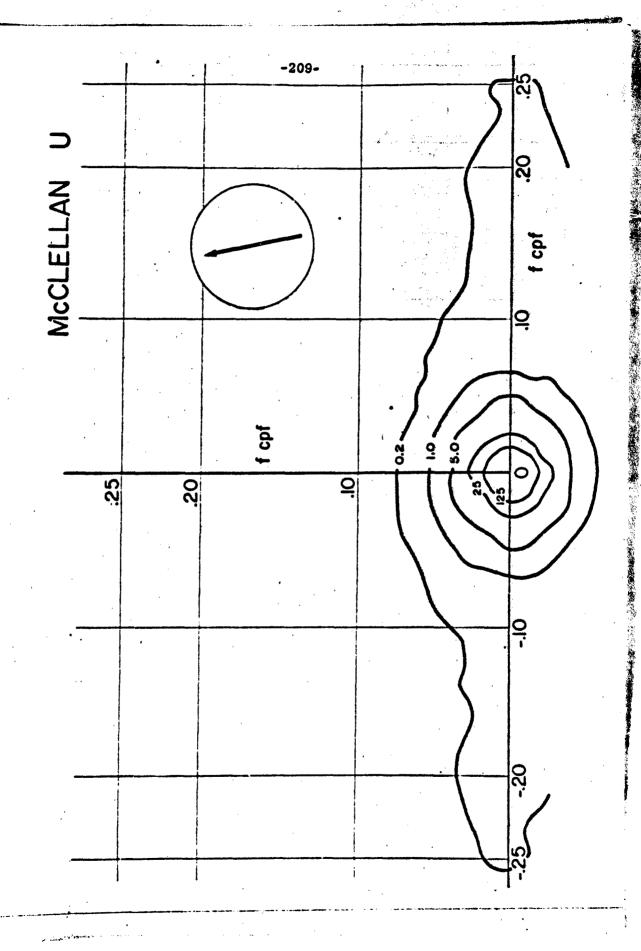


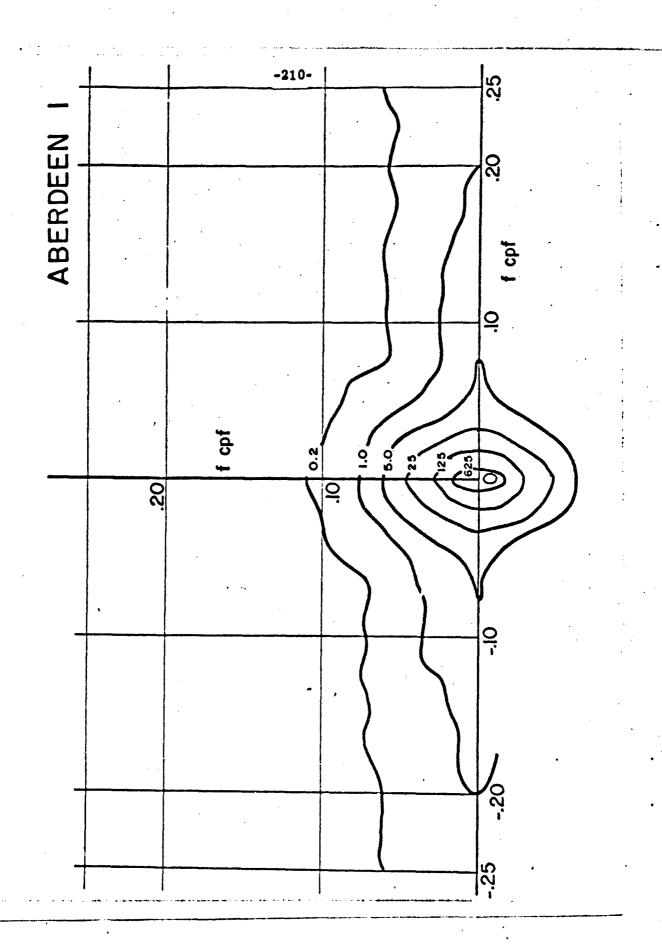


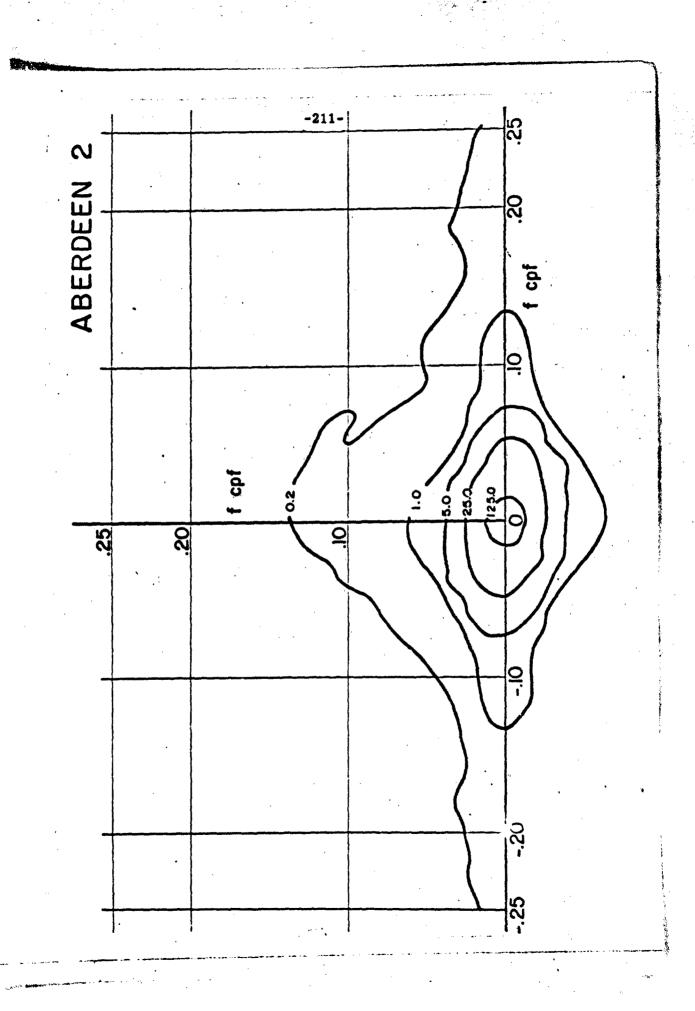


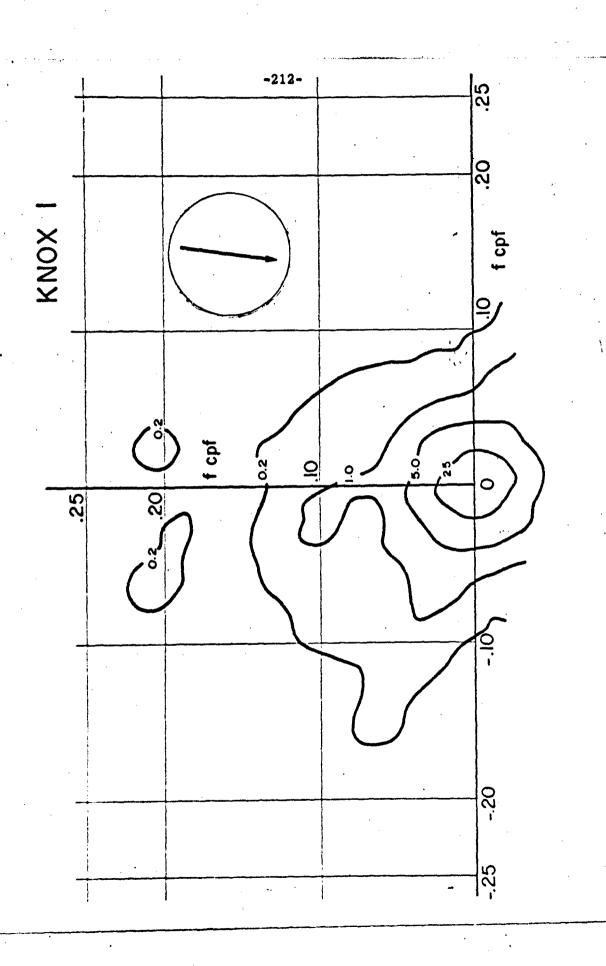


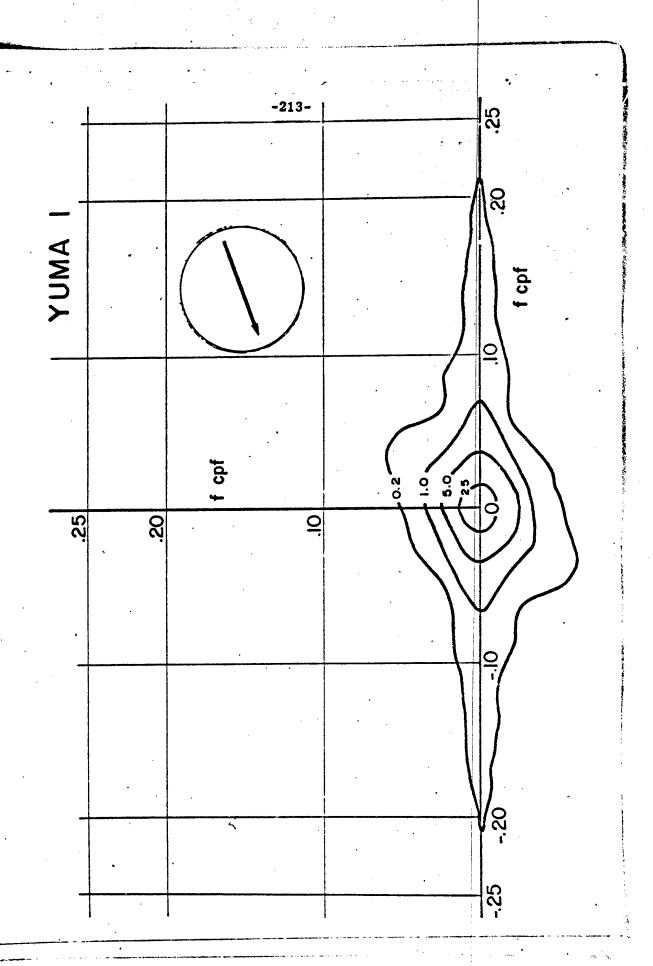


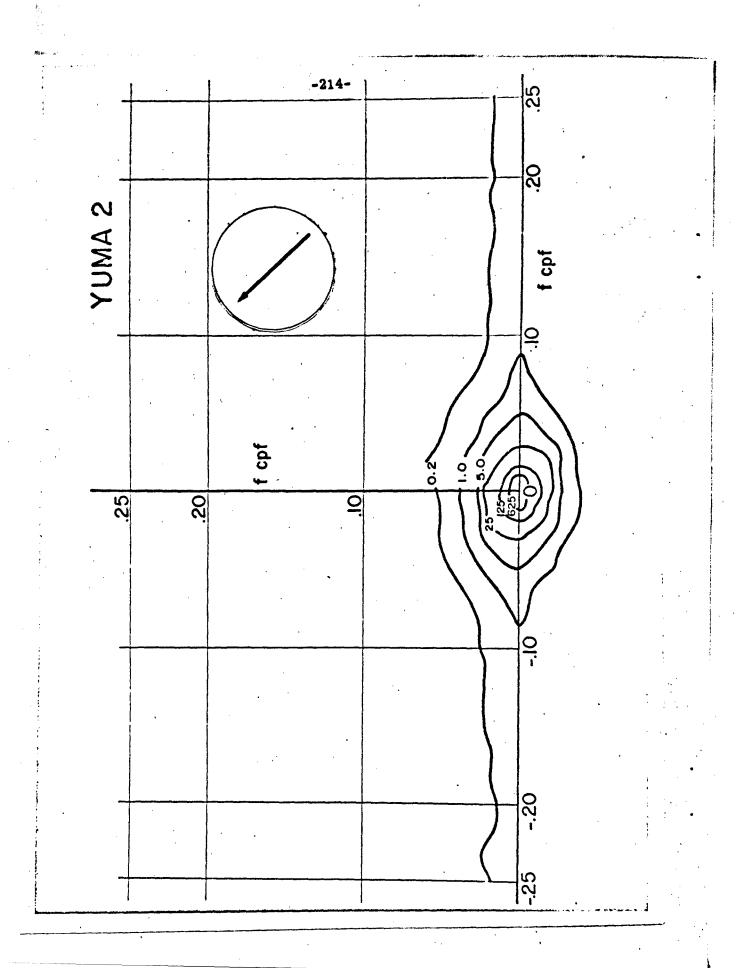












COMPUTATIONS

The computations for this report are done on two programs for the IBM 7094 computer. These programs will be described in considerable detail in Appendices B and C.

In Appendix B, is the co-spectral program for processing data from one track or two parallel tracks. This program was modified from an existing program by adding to it a routine for smoothing the input data and correcting the resulting spectrum. Other changes of a minor nature were also made.

The program described in Appendix C was made especially for processing area data; it is new.

Both programs are available on IBM cards at Midwest Applied Science Corp. at cost.

CONCLUSIONS

There were no surprises in the new line data. Most of the features presented in the p.s.d.'s of our previous report [1] are again to be observed in the new p.s.d.'s. However, the bumps near the 28 ft. wave lengths noticeable in the Knox and Aberdeen p.s.d.'s are not observed again. We conjectured in [1] that these bumps were due to periodic components observable in the ground profile. These could have been caused by repeated use of the ground by vehicles.

The spectra trail off to levels associated with measurement error, as noted in [1]. Thus, power in the high frequency components was generally low. This suggests that a longer measurement interval could have been used. But we are constrained to note that in one vehicle test at Fort Sill high frequency vibration present in the steering system tended to limit speed, indicating that in certain situations closer spacing of data points may be required; this point will be commented upon again in our report on vehicle vibration tests.

Since interpretation is reserved for the second report. we shall now confine attention to conclusions concerning data acquisition and processing.

Surveying methods present a very simple technique for acquiring elevation data. Equipment is easy to rent and use. It is easy to train unskilled personnel in their use for this purpose. The data from Las Vegas were taken in one day by persons who had not previously made this type of measurement.

One is tempted to draw general conclusions from a visual inspection of the data presented. If, however, such remarks are to be meaningful, they must be made keeping in mind the purpose of the study. We cannot, for example, assert that the accuracy of our estimates is good until we know what accuracy is necessary. We cannot make up curves to fit the results unless we know what part of the results must require the closest fit. The internal consistency of the results—the comparison of the line data with the area data at each site, for example—requires some analytic work and perhaps more computation. We will delay such conclusions to the second report.

The spectral estimation procedure was designed with conventional vehicle sizes and speeds in mind. As mentioned elsewhere, it is conceivable that reprocessing of the data may be required for unconventional vehicle types. This point will be studied in due course.

RECOMMENDATIONS

- 1. For measurement of ground roughness, we recommend that the surveys be conducted with self-leveling levels and self-zeroing rods. Experienced personnel are not required.
- 2. The format on which the survey data is entered into books is, on the surface, a small matter. However, in recording it on IBM cards for program input, it may be a matter of considerable expense if the original data are not in a suitable format. Recommendations for recording data are presented with the program descriptions in this report.
- 3. A pre-program must be used to detect outlying data points. The anomalous points must be compared with original books and changed if there is sufficient reason. Unless errors of this type are eliminated, p.s.d. estimates will have peculiar features which are not easily explained. Consultation with survey personnel is usually desirable to check whether outlying values are errors.
- 4. An extended program to obtain a larger atlas of ground roughness measurements does not seem justified on the basis of the similarity between the results already obtained. Specific experiments or vehicle trials may, however, require surveys.
- 5. We recommend this atlas be used by those interested in aspects of ground roughness which can be measured by p.s.d.'s. These plant areas. They may be combined into an average for some purposes or their differences may be noted. In any case, a quantitative use of these results awaits further development.

REVIEWED:

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APPROVEQ:

KEITH G. COMSTOCK

to col. Ord

Chief, Components R&D Laboratories

REFERENCES

- [1] Report 8391 LL95 of the Land Locomotion Laboratory, U. S. Army Tank-Automotive Center,
 Warren, Michigan. "Statistical Studies of Stable
 Ground Roughness" by Frank Kozin, Louis J. Cote,
 and John L. Bogdanoff (Nov. 1963).
- [2] "Introduction to a Statistical Theory of Land Locomotion", by John L. Bogdanoff, Frank Kozin, and Louis J. Cote, in four parts. Jour. Terramechanics, Vol. 2, 3 (1965, 1966).

APPENDIX A

List of Equipment Used by Surveying Crew

1	dozen	Blue Crayons
	1b.	Stake Tacks
	rolls	Red Plastic Tape
	rolls	Orange Plastic Tape .
	dozen	Pencils
	402011	Surveyor's Bags
2		100 ft. Engineer Tapes (Post Cat. No. 3141H)
2		100 ft. Lufkin 3/8" Steel Tapes
~	ı	
2		(Post Cat. No. 3245K)
2		100 ft. Cloth Tapes (Post Cat. No. 3200K)
0		Range Poles
26884	sets	14 in. Marking Pins
Ö		Marking Pin Rings
		8 oz. Plumb Bobs
4		Plumb Bob Sheaths
	skeins	Plumb Bob Cord
_	sets	Level Book Leaves
	set	Cross Section Leaves
5		Binders
1		Prismatic Compass
2	•	Lenker Elevation Leveling Rods
. 5		Repeating Theodolites K&E Cat. No. 730050
2		Zeiss Self Leveling Levels K&E Cat. No. 750020
1		Auto Top Carrier and Cover
2		Shovels
2	ř.	Machettes
2	•	Thermos Jugs
2		Folding Stools
2		Canvas Bags
ī		Hatchet
2	,	Snake Bite Kits
ī		Auto First Aid Kit
ī		Camera
5122212222212111		Station Wagon
-		Surveying Stakes and other expendible
		items purchased in field.
		reeme herenged in field:

APPENDIX B

Linear Power Spectral Density Program

'PSLINE'

1. Purpose: 'PSLINE' is designed to accept one or more sets of data, each of which consists of one to five parallel tracks. The tracks are represented by as many as one thousand, equally spaced points. Control parameters have been provided to allow flexibility in specifying filtering values, output requirements and track selection.

'PSLINE' provides the basic operation of computing the covariance functions, raw spectra and spectral estimates for one track or a pair of tracks.

2. Machine Requirements: The 'PSLINE' program exists as a (IBM) FORTRAN IV source program consisting of several subroutines. It is intended to be run on the IBM 7094 computer under the IBSYS operating system. Deviation from these conditions may involve slight modification of the source program. (See Supplement 1 for detailed description of program logic.)

3. Card Preparation:

CONTROL CARD

COLS 1 - 6 **\$LINEP** Input tape number. #5, blank - all input is taken. from tape 05. XX - TITLE card, track data only are taken from tape XX, other information from tape 05. X - number of tracks. 1 < X < 5 XXX - number of lags. 10 - 1213 14 - 15 XX - Number of filtering coefficients. 1 < XX < 20

16 - 21	XXXXXX - distance between points within a track. Decimal point
	must be punched.
22	0, blank - do not print raw data.
	1 - do print raw data.
23	0, blank - do not print smoothed data
	1 - do print smoothed data.
24 - 25	XX - number of selection cards.
26 - 80	

SELECTION CARDS

T

1	•	8	\$SELECT 0 - Print covariance functions 1 - Do not print.
		9	0 - Print raw spectrum. 1 - Do not print.
•			<pre>0 - Print spectral estimates. 1 - Do not print.</pre>
			bbbby - Track No. 1
			If Track No. 2 is present, then the pair of tracks (No. 2 and No. 1) will be processed.
			If Track No. 2 is not present, then only the single track specified by Track No. 1 will be processed.
		11 -	9

Type 2:

\$SELALP As in Type 1. COLS

All possible pairs of tracks are processed.

Type 3:

COLS 1 - 7 \$SELALS 8,9,10 As in Type 1.

All tracks are processed individually.

KEY CARD

COLS 1 - 72 Blank
73 - 80 An eight digit number which appears
on the TITLE card of the particular track data which is to be
processed.

This card is present to allow processing of arbitrarily positioned data sets on a tape other than Tape 5. However, regardless of whether the track data is on Tape 5 or on another tape, the KEY card number and the TITLE card number for the track data must be present. If more than one set of track data is to be processed, the sets must be in the same order as the KEY cards are encountered, i.e., PSLINE will not rewind the input tape if the correct TITLE card has not encountered when the end of the tape is reached.

TITLE CARD

COLS 1 - 6
7 - 36
Any text which identified this track data set. This title will appear at the top of each page of output for this track data set.

37 - 72
Blank
73 - 80
Eight digit number which will
identify this track data set
given the number on the KEY
card.

TRACK DATA

A set of track data consists of l or more tracks, all of which consist of the same number of points. Let T(I,J) denote the Ith point of the Jth track. Suppose there are n tracks, then T(I,1), T(I,2), ... T(I,n) is called the Ith cross-section for this set of track data.

Track data is punched into cards by cross-sections and is read by 'PSLINE' by cross-sections.

A FORMAT card must be constructed to indicate how the cross-section values have been punched on cards. In addition the FORMAT card must allow for a one character, alphameric field to be read after the last number of each cross-section. The use of this character will be discussed later.

Example Track 1 4.0, 4.2, 4.3 Track 2 3.1, 3.2, 3.3

This could be punched as follows:

Card 1	COLS 1-3 4-6	4.0 3.1
Card 2	COLS 1-3 4-6	4.2 3.2
Card 3	COLS 1-3 4-6	4.3 3.3
Card 4	COLS 1-3 4-6 7	Blank Blank # or \$ or /

And the associated FORMAT card would be

(2F3.0, A1)

NOTE: Columns 73-80 should not be used to contain track data or the one character field.

TERMINATION CARDS

In order to eliminate the necessity of counting the number of points/track in a track data set, PSLINE looks for a special cross-section in which the one-character field is not blank and is one of *, \$ or /. When a cross-section of this type is found the following actions are taken:

- 1. The numeric values read are NOT included in the true track data.
- 2. It is assumed that the last cross-section read is the last cross-section for this track data set.
- 3. The particular character (*, \$, or/) found determines how the NEXT input set is to be processed:
 - indicates that there are no more input sets.
 - / indicates that the next input set
 consists of only

KEY card
TITLE card
Track Data (including TERMINATION card)

This allows one to process many track data sets with the parameters found on one CONTROL card. Note that this presupposes that filtering specifications, number of tracks, number of SELECTION cards and track data format are identical for the next data set.

\$ indicates that a new control card is
to be read with the next input set.
I.e., the next input set will consist
of

CONTROL Card
Filtering Coefficient Format Card
Filtering Coefficients
Track Data Format Card
KEY Card
TITLE Card

Track Data (including TERM-INATION Card) SELECTION Card(s)

FORMAT CARD

The variable format technique is employed by PSLINE to allow flexible data card format. A FORMAT card for PSLINE consists of a standard FORTRAN FORMAT statement, with the word FORMAT deleted, punched free form, into columns 1-72 of a card.

Filtering coefficient format must contain only F or E-type conversions, track data formats must specify one more field than the number of tracks with the last of the fields Al.

Consult IBM FORTRAN IV programming (7090/94) manuals for detailed description of FORMAT statements.

4. Deck Preparation: The following is an example of a deck prepared using the various termination character options. Bracketed cards would appear on another tape (other than the system input tape) if the CONTROL card specified so.

\$JOB card Installation \$ID card \$EXECUTE IBJOB \$IBJOB

Source Program Deck

Binary Object Deck

\$DATA card

CONTROL card Filtering Coefficient FORMAT Card
Filtering Coefficients
Track Data FORMAT Card
KEY Card
TITLE Card
Track Data (TERMINATION Card with /)

SELECTION Card(s)
KEY Card
Track Data (TERMINATION Card with \$)
SELECTION Card(s)
CONTROL Card
Filtering Coefficient FORMAT Card
Filtering Coefficient
Track Data FORMAT Card
KEY Card
TITLE Card
Track Data (TERMINATION Card with *)
SELECTION Card(s)
END-OF-FILE Card

SUPPLEMENT 1

to

LINEAR POWER SPECTRAL DENSITY PROGRAM

A. General Program Logic

The PSLINE program consists of a main program (deck name RVR...) and five subroutines (entry points - INPUT, OUTPUT, FILDEC, COQUAD, and CORRET).

- 1. INPUT The INPUT subroutine reads all input cards except selection cards and sets parameters to control the processing of the track data. Upon reading the filtering coefficients, it calls subroutine CORRET to compute the actual filtering values.
- 2. OUTPUT The OUTPUT subroutine is called by the main program, RVR..., to print out raw and/or smoothed track data, one track per call.
- 3. FILDEC The FILDEC subroutine is called by the main program, RVR..., to perform the filter transformation on the track data.
- 4. CORRET The CORRET subroutine is called by the INPUT routine to compute the actual filtering values from the filtering coefficients read from cards.
- 5. COQUAD The COQUAD subroutine is called by the main program, RVR..., and is supplied with two tracks as arguments. It does all computation for the spectral analysis of the filtered track data and all associated output (covariances, raw and smoothed spectra).
- 6. RVR... The main program, RVR..., calls INPUT, OUTPUT, and FILDEC to prepare the filtered track data. It then reads SELECTION cards and calls COQUAD to perform the required spectral analysis.

B. Internal Data Organization

The following is a list of the various blocks of labeled COMMON and their associated variables. The table which follows indicates (via an X) which blocks are available to each routine.

Block Name

DLABEL .

NDMT - Number of filtering coefficients.

D(20) - Filtering coefficients.

RAW - Switch (true or false) to control

printing of raw data.

SMOOTH - Switch (true or false) to control

printing of smoothed data.

NSEL - Number of SELECTION cards to be

read.

DELTAX

DELTA - Distance between track points.

LAGS - Number of lags specified on CONTROL

card.

LABEL

NAME(5) - COLS. 7-36 of TITLE card.

XXX

LA(501) - Actual filtering coefficients computed by CORRET and used by COQUAD.

LIST

IC - Switch (0 or 1) to control printing of covariance functions.

IR - Same as IC for raw spectrum.

IS - Same as IC for spectral estimates.

ITWO - Switch (true or false) set by RVR... to tell

QSQ

CS(1002) - Computational constants produced QA(501) - by CORRET for use in COQUAD.

	DLABEL	DELTAX	LABEL	xxx	LIST	QSQ
RVR INPUT OUTER CORRET	X X	x x	X X	x x	X	x
FILDEC COQUAD	X	X	x	x	x	x

C. Detailed Description of Routines

Subroutine OUTER

ARGUMENTS:

ARRAY - Floating Pt. vector.

N - Number of elements in ARRAY.

XN - Track Code: Track No. 1-A,

Track No. 2-B, ..., Track No. S-E. KK - 1 if raw track.

2 if smoothed track.

OPERATION:

Outputs ARRAY, ten numbers per line, with a double space every ten lines and a new page every fifty lines. Each page is headed by the information in Columns 7-37 of the TITLE card and the appropriate track code.

Subroutine CORRET

PARAMETERS: (Passed via labeled COMMON)

LAGS - Number of lags.

NF - Number of filtering coefficients.

FACTOR(NF) - Filtering coefficients.

OPERATION:

Computes the following:

For 1 = 1, 2, ..., NF

For i = 1,2, ..., 2 X LAGS

$$CS_1 = COS [(1-1) X \frac{\pi}{LAGS}]$$

$$LA_1 = QA_1 + 2 \times \frac{NF}{1=2} QA_1$$

For $1 = 2,3, \dots, LAGS + 1$

$$LA_{1} = QA_{1} + 2 \times \sum_{j=2}^{NF} PA_{j} \times CS_{(i-1)X(j-1) \text{ Modulo}}$$

$$2 \times LAGS_{j} + 1$$

Subroutine FILDEC:

ARGUMENTS:

A - ARRAY containing raw track data.

NA - Number of points of raw track data.

NB - Set by FILDEC, number of points in smoothed track data.

OPERATION:

Smoothes the track data in A and returns smoothed track data to A.

PARAMETERS: (Via labeled COMMON)

ARRAY of filtering coefficients. Number of filtering coefficients.

For $1 = 1, 2, \dots, NA-NF + 1$

is set to NA-NF + 1

Subroutine INPUT:

ARGUMENTS:

- . A five column ARRAY with 1050 rows into which track data will be read.
- I INPUT will set this to number of points per track in the data read.
- INPUT will set this to the number of tracks read.

Main Program RVR...

VARIABLES:

ARRAY of track data passed from INPUT routine.

NDATA - Number of points per track.
J - Number of tracks.

OPERATION:

See flow chart.

Subroutine COQUAD:

This was originally a routine for computing spectra, co-spectra and other related quantities. It was obtained from the University of California, Berkely, California. Its identification is G2 BC COQD. The program was written by Steward W. Smith, California Institute of Technology Seismological Laboratory, and was modified for BC Computer Center by Emily Harris in February 1963.

A flow chart for this program is not available and operating instructions are contained largely in the above. We present those quantities calculated by the program which are used by us.

The following two terms are computed for p=0 to m.

$$(TERM 1)_p = {r \atop r} x_1 y_{1+p} - {1 \atop N-p} {r \atop r} y_{1+p} {r \atop r} x_1$$

$$(TERM 2)_p = \sum_{i=1}^{N-p} y_i x_{i+p} - \frac{1}{N-p} \sum_{i=1}^{N-p} x_{i+p} \sum_{i=1}^{N-p} y_i$$

The following covariance estimates are computed for p=0 to m.

- $(QX)_p = \frac{1}{N-p} \times formula for TERM 1 with x replacing y so that products involve x's only.$
- $(QY)_p = \frac{1}{N-p} \times \text{formula for TERM 1 with y replacing}$ x so that products involve y's only.

$$(QC)_p = \frac{1}{2(N-p)} [(TERM 1)_p + (TERM 2)_p]$$

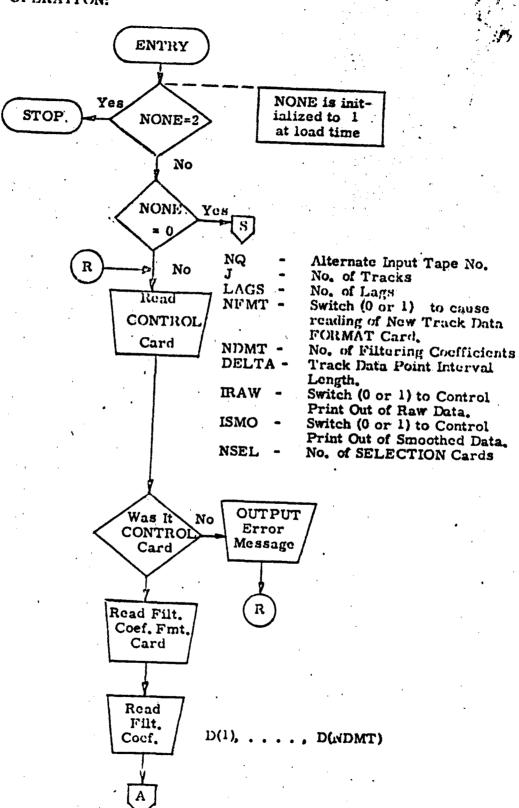
$$(QQ)_p = \frac{1}{2(N-p)} [(TERM 1)_p - (TERM 2)_p]$$

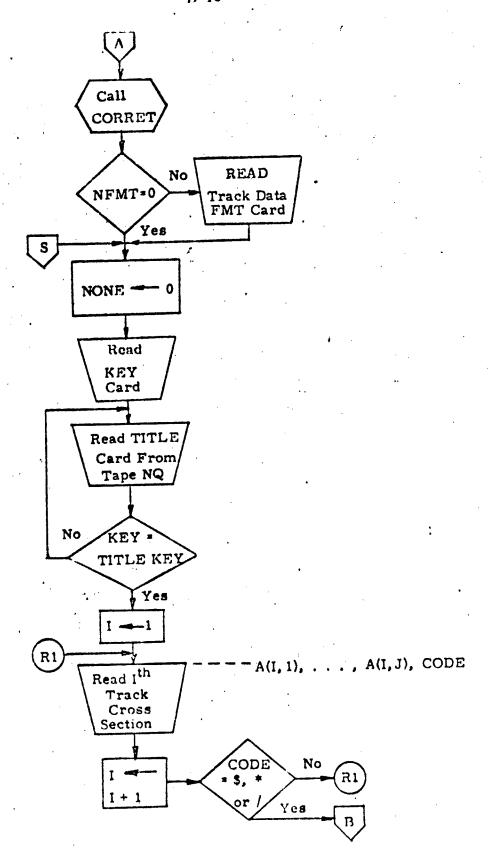
The raw spectral estimates are denoted (LZ) where Z may be X, Y, or C. (LQ) is computed by a separate formula. These are computed for h=0 to m.

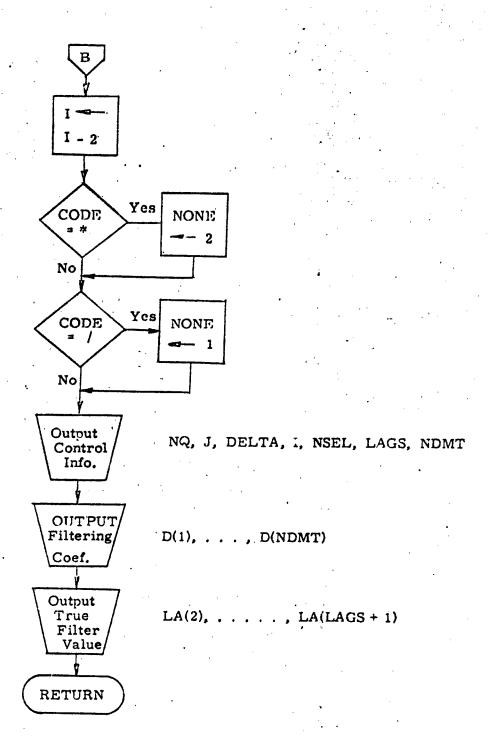
$$(LZ)_{h} = \frac{1}{m} (QZ)_{o} + \frac{2}{m} \sum_{1}^{m-1} (QZ)_{p} \cos \frac{\pi ph}{m} + \frac{1}{m} (QZ)_{m} (-1)^{h}$$

$$(LQ)_h = \frac{2}{m} \quad \frac{m-1}{1} \quad (QQ)_p \sin \frac{\pi ph}{m}$$

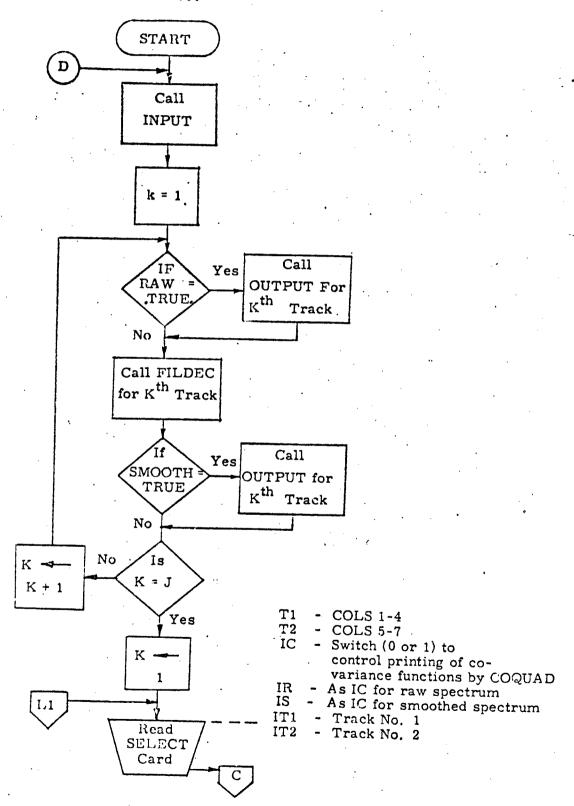
The raw spectral values are subjected to a running average smoothing using coefficients .25, .50, .25, to give the smoothed spectral values denoted $(WX)_h$, $(WC)_h$, and $(WQ)_h$.

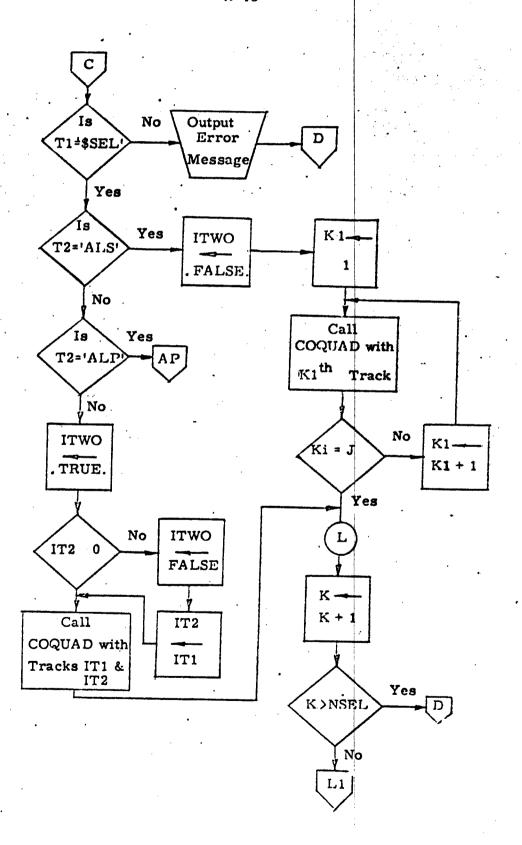


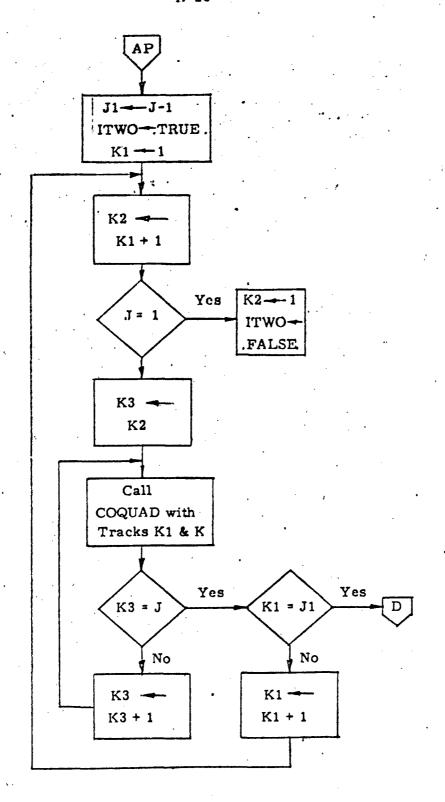




MAIN PROGRAM RVR...







```
TWO TRACK POWER SPECTRAL DENSITY PROGRAM
SEXECUTE
               18308
               MAP
SIRJOR
SIBFTC RVR. ..
              DECK . FUL 1ST . REF . DD
                                                                          L1N00000
      LOGICAL
              RAW. SMOOTH: ITWO
                                                                          LINCOOLO
                                                                         -LIN00020
      DIMENSION A(1050+5)+ AN(5)
      COMMON /DLABEL/ NDMT+ D(20)+ RAW+ SMOOTH+ NSEL
                                                       AIST/ IC. IN. IS.LINO0030
     1 ITWO
                                                                          L1N00040
      DATA ( AN(1)+ 1 = 1+,5 ) / 1MA+ 1MB+ 1MC+ 1MD+ 1ME /+ SEL+ ALS+
                                                                          L1N00050
     IALP / AMSSEL . SMALS . SMALP /
                                                                          LIN00060
100
      CALL IMPUT! A. I. J.
                                                                          L-1N00070
      NDATA . 1 .
                                                                          L1N00080
      00 200 K = 1. J
                                                                          L1N00090
      IF! RAW ) CALL OUTPUT! A!!+K)+ !+ AN!K)+ ! }
                                                                          LIN00100
      IF( NOMT .LE. 0 ) GO TO 200
                                                                          LINCOLLO
      CALL FILDECT ACTIONS TO MOSTA )
                                                                         LIN00120
      IF! SMOOTH .AND. NOMT .GT. 0 ) CALL OUTPUT! A! 14K). NOATA. AN(K).LINOO130
200
     +2 )
                                                                          L1N00140
                                                                          LIN00150
      00 300 K = 1. NSEL
                                                                          LIN00160
                                                                          L1N00170
      READ (5.1) TI. TZ. IC. IR. IS. ITI. ITZ
      1F! T1 .NE. SEL ) GO TO 900
                                                                          L1N00180
                                                                          L1N00190
      1F1 T2 .EQ. ALS ) GO TO 310
                                                                          LINOOZOO
                                                                          LINOOZIO
      IF! TZ .ER. ALP )
                         60 TO 320
                                                                          LINGOSZO
      ITWO . TRUE.
                                                                          L1N00230
      IF! IT2 .GT. 0 ) GO TO 305
                                                                          LIN00240
      ITWO . FALSE.
                                                                          LINOOZSO
      172 - 171
                                                                          LINCOZEO -
305
      CALL COQUAD! NDATA: A:1:171): A(1:172): AN(171): AN(172) }
                                                                          L1N00270
      GO TO 300
                                                                          F1M00580
                                                                          L1N00290
      ITWO = .FALSF.
                                                                          L1N00300
310
      DO 311 K1 = 1+ J
                                                                          L1N00310
311
      CALL COQUAD! NDATA. A(1.K1). A(1.K1). AN(K1). AN(K1).
                                                                          LINOOSEO
      GO TO 300
                                                                          L1N00330
                                                                          LIN00340
320
      J1 = J - 1
                                                                          L#N00350
      ITWO . TRUF .
                                                                          L:N00360
      DO 321 K1 = 1. J1
                                                                          L1N00370
      K2 = K1 + 1
                                                                         L1N00380
      1F( J .NE. 1 ) GO TO 322
                                                                          L1N00390
      K2 = 1
                                                                          LIN00400
      ITWO = .FALSE.
                                                                         L1N00410
      DO 321 K3 * K2. J
322
                                                                         L1N00420
      CALL COGUAD( MOATA+ A(1+K1)+ A(1+K3)+ AN(K1)+ AN(K3) )
321
                                                                         LIN00430
      CONTINUE
                                                                         L1N00440
300
                                                                         L1N00450
      GO TO 100
                                                                         L1N00460
      WRITE (6.2) K
                                                                         L1N00470
900
      GO TO 100
                                                                         LIN00460
      FORMAT(A4.A3.311.216)
                                                                         L1N00490
      FORMAT(23H1ON ATTEMPT TO READ THE14.79HTH SSEL CARD, NO SSEL CARD LINOUSON
```

```
L1N00520
SIBFTC INPUT
                DECK . FUL IST . REF . CO
                                                                            L1N00530
       SUBROUTING IMPUT! A. 1. J.
                                                                            LIN00540
                                                                            L1N00550
      REAL LA
                                                                            LIN00560
      LOGICAL RAW, SMOOTH-
                                                                            L1N00570
      DIMENSION A(105045) + PHT(12) + DFMT(12)
                                                                            L1N00580
      COMMON /DLABEL/ NOMT: D(20): RAW: SMOOTH: NSEL /DFLTAX/ DELTA:
                                                                           L1N00590
      1 LAGS ALABEL/ NAME (5) / XXX / LA(501)
                                                                            L1N00600
      DATA ASTRIC. DOLLAR, SLASH, NONE /. 1HP. 1HS. 1H/. 1./.
                                                                            LIN00610
     1 PMT(1) / 13M(F10.0.61XA1) /. ILIN. IFIN / 6MSLIMFP. 6MSFINIS /
                                                                           L1N00620
                                                                            L1N00630
      IF( NONE .EQ. 2 ) GO TO 6
IF( NONE .EQ. 0 ) GO TO 3
                                                                            L1N00640
                                                                           L1N00650
                                                                           L1N00660
      1CTL . 1
                                                                           LIN00665
11
      READ (5+100)
                     ITST. NO. J. LAGS. NEMT. NOMT. DELTA. IRAW. ISMO.
                                                                           L:N00670
                     NSEL
                                                                           LIN00671
                                                                           L1N00672
      IF( ITST .EQ. IFIN ) GO TO 6
                                                                           L1N00675
      IFI ITST .NE. ILIN ) GO TO 60
                                                                           L1N00676
                                                                           LINGGA79
      RAW = .TRUE.
                                                                           L1N00680
      SMOOTH . TRUE.
                                                                           L1N00690
      IF! IRAW .EQ. 0 )
                          RAW + SPALSES
                                                                           LIN00700
      IF! ISMO .EQ. 0 ) SMOOTH . .FALSE.
                                                                           LIN00710
      IF! NOMT .LE. 0 )
                          GO TO 2
                                                                           LIN00720
      READ (5.101) DEMT
                                                                           LIN00730
      READ (5+DEMT) ( D(M)+ M # 1+ NOMT )
                                                                           L1N00740
      CALL CORPET
                                                                           L1N00750
      IF ( NEMT .GE. 1 ) READ (5.101) PMT
2
                                                                           L1N00760
                                                                           L1N00770
3
      NONE . O
                                                                           L1N00780
                                                                           L1N00790
      READ (5.108) KEY
                                                                           LINCOSCO
      READ (NO.102) NAME, KEYT
                                                                           L1N00810
      IF! KEY . NE. KEYT ) GO TO 41
                                                                           L1N00820
                                                                           LIN00830
      READ (NO+PMT) ( A(1+N)+ N = 1+ J )+ COOF .
                                                                           LIN00840
      1 = 1 + 1
                                                                           LINCOSSO
      IFI CODE .NE. DOLLAR .AND. CODE .NE. ASTRIC .AND. CODE .NE. SLASH LINOUBGO
           30 TO 5
     1 )
                                                                           L1N00870
                                                                           LINCORRO
      1 . 1 - 2
                                                                           LINCOSON
      IF! CODE .EQ. ASTRIC ) NONE = 2
                                                                           L1N00900
      IF! CODE .EQ. SLASH ) NONE . 1
                                                                           L1N00910
                                                                           LINOO920
      WRITE (6+103) NO. J. DELTA. I. NSEL, LAGS. NOMT
                                                                           L1N00930
      IF! NOMT .LE. 0 ) GO TO 51
                                                                           L1N00940
      WRITE (6+104) ( D(M)+ M = 1+ NOMT )
                                                                           L1N00950
      LAGS1 = LAGS + 1
WRITF (6+107) ( LA(M)+ M = 2+ LAGS1 )
                                                                           L1N00960
                                                                           L1N00970
      IFI NO + J + LAGS + NSEL + IFIXI DELTA + . + ) .EG. () WRITE (6.1LIN00980
51
```

```
105)
                                                                           LIN00990
                                                                           L1N01000
      RETURN
                                                                           LINGIGIO
                                                                           LINGIDEO
      WRITE (64106)
                                                                           L1N01030
      STOP
                                                                           L1N01040
                                                                           LINOTO41
60
      WRITE (6:109) ICTL: ITST: NO: J. LAGS: NPMT: NOMT.
                                                                           LIN01042
     1 ISMO. NSEL
                                                                           LIN01043
      ICTL . 0
                                                                           LINCI 044
      60 TO 11
                                                                           LIN01045
                                                                          LIN01050
100
      FORMAT(A6.12.11.13.11.12.P6.0.211.12)
101
      FORMAT(12A6)
                                                                          LIN01070
102
      FORMAT(6X+5A6+36X181
                                                                          L1N01080
      FORMATIA9HIINPUT PARAMETERS FOR THE FOLLOWING COMPUTATIONS // ISHOELLING 1090
103
     TEVATION DATA//3X12HLOGICAL TAPE13//3X6HTRACKS7X12//3X6HDELTA F12.6L1N01100
     2//3X10HNO. POINTS15/21HONUMBER OF SSEL CAROS14/15HONUMBER OF LAGS1L1N01110
     34/26HONUMBER OF FILTERING COEF . 14)
                                                                          L1N01120
104
      FORMATI/19MOFILTERING COEF. -- 3E17.8//(19X3E17.8/1X1)
                                                                          L1N01130
      FORMATI //SEMMERROR IN ABOVE INPUT. ATTEMPT AT PROCESSING WILL BE MLINOITAD
1 75
                                                                          -LIN01150
      FORMAT(1H1/1H3//55X+10HTHESE THEN//58X+3HARE//53X+14HTHE ANSWERS++LIN01160
106
     12//SOX+20HNOW ALL THAT REMAINS//SSX+10HTO RF BONE//SSX+EMIS//SSX+ LING1170
     29HTO RECALL//53X+14HTHE QUESTIONS+//65X+6HRVR+++
                                                                          L 1NO1180
      FORMATI//25X19H ACT. FILTER VALUES//(E19.8.3E17.8/1X))
107
                                                                          L1N01190
108
      FORMAT(72X18)
                                                                          LINOIZOO
      FORMAT(11.50HISLINEPI.CARD EXPECTED BUT NOT FOUND: CARD AS READ/INLINGIZOT
109
     106XA6+12+11+13+211+F6+0+211+121
                                                                          LINGIZOZ
      FND
                                                                          LIN01210
SIBETC CORPET DECK.FULIST.REF.DO
                                                                          L1N01390
      SUBROUTINE COPRET
                                                                          L1N01400
      PEAL LA
                                                                          LIN01410
      COMMON /XXX/ LA(501)/DLASFL/MF+FACTOR(23)/DFLTAX/MULL+LAGS
                                                                          LIN01420
      COMMON /050/ C5(1002)+0A(501)
                                                                          L1N01430
     LAGS1=LAGS+1
                                                                          L1N01440
     NF1=NF+1
                                                                          L1N01450
     DO 51 1-1-NF
                                                                          LIN01460
     04(1)=0.0
                                                                          LIN01470
     NENFI-1
                                                                          LIN01480
     NJ=1
                                                                          L1N01490
     DO 51 J=1.N
                                                                          LIN01500
     GA(1)=GA(1)+FACTOR(J)+FACTOR(NJ)
                                                                          L#N01510
  14LMELN 17
                                                                          LIN01520
     0A1=0A(1)+0.5
                                                                          LIN01530
     DO 52
               1=1+LAGS1
                                                                          LIN01540
  52 LA(1)=QA1
                                                                          LIN01550
     ANG=3.141592654/FLOAT(LAGS )
                                                                          LIN01560
     LAGTWO=LAGS+LAGS
                                                                          L1N01570
     DO 53 1=1+LAGTWO
                                                                          LINGISHO
     GHFLOAT (1-1) HANG
                                                                          L1N01590
  53 CS([)=COS(G)
                                                                          L1N01600
     DO 54 1=2+NF
                                                                          LINGISIO
  44 LA(1) = LA(1)+9A(1)
```

L1N01620

```
00 55 1-2.LAGS1
        00 55 Jazam
                                                                          LIN01630
        JRa(1-1)#(J-1)
                                                                          LIN01640
        JJAMODI URILAGTWO141
                                                                          LIN01650
     57 LAITHLAITHCSIWHOAIUS
                                                                          LIN01660
        00 56 141 .LAGS1
                                                                          LIN01670
     56 LAITIEZ OFLAITS
                                                                          LIN01680
        PETURN
                                                                          L1N01690
        END
                                                                          LIN01700
  SIBPTC FILDEC DECK.FULIST.REF.DD
                                                                          LIN01719
        SURROUTINE FILDECIA NA . NO.
                                                                          LIN01720
        DIMENSION A(1)
                                                                          L4N01730
        COMMON JOLABEL/ NEIF123)
                                                                          LIN01740
        MCaNA-NE+1
                                                                          LIN01750
        Jut
                                                                         LIN01760
       00 11 141 MC
                                                                          LIN01770
        5=0+0
                                                                         LIN01780
       00 10 Kal .NP
                                                                         LIN01790
       L=14K-1
                                                                         L1N01800
  10
       SESA FIXTHAILT
                                                                         LINDIALO
       AIJIES
                                                                         LINGIAZO
  11
       J=J41
                                                                         LINCISSO
       MA J-1
                                                                         LIN01840
    TO PETUDN
                                                                         LINGISSO
       END
                                                                         LIN01860
 SIBETC COQUAD DECK.FULIST.REF.DD
                                                                         LIN01870
       SUBBOUTINE COOURD (NOAT . X . Y . XN . YN)
                                                                         L1N01880
      ************************
 C****
                                                                         L1N01890
       SPECIFICATION STATEMENTS FOR COQUAD
 C
                                                                       ##L1N01900
 C
                                                                        L1N01910
       LOGICAL
                TWO
                                                                        LIN01920
       COMMON /XXX/ ZA(501) /LABEL/ NAME(5) /DELTAX/ DELTA-LAGS
                                                                        L1N01930
       COMMON /QSQ/ CS.UX/LIST/ IC+ IR+ IS+ ITWO
                                                                        LIN01940
      DIMENSION X(6000) +Y(6000) +TERM(1801) +TERM2(801) +0X(801) +0Y(801) +
                                                                        L1N01950
      #SUMXL(901) .SUMXU(301) .SUMYL(901) .SUMYU(901) .PRODXX(901) .PRODYY(501LIN01970
     *) .PRODXY(501) .PRODYX(501) .QC(501) .QQ(501) .UX(501) .UY(501) .UC(501) .L[NO1980
     #UQ(501) .WX(501) .WY(501) .WC(501) .WO(501) .C$(1002) .SN(1002) .NFLAG(4)L[N01990
      EQUIVALENCE (PRODXX+QX+WX)+ (PRODYY+QY+WY)+ (PRODXY+TERM1+UC)+
     +(PRODYX.TERM2.UO).(SUMXL.UX).(SUMYL.UY).(SUMXU.GC.WC).
                                                                        LINOZOOO
     * (SUMYU+GG+WG)
                                                                        LINOZOIO
      DATA PWI . PWZ . PW3 / 1HQ . 1HU . 1HW / LAG /0/
                                                                        LINOZOZO
     INITIALIZATION OF CONSTANTS AND FACTORS FOR COQUAD
C
C
                                                                        LIN02050
      MORTALMOAT
                                                                       LINOZOGO
      IFILAG.FO.LAGS) GO TO 500
                                                                        LINGZOTO
      LAGELAGE
                                                                       LINGSORO
      NO+LAGS+1
                                                                       LINOZOGO
      FLAGSeLAGS
                                                                       L1N02100
      PLAGS2 . PLAGS + FLAGS
                                                                       LINCZIIO
     FLT . 2.0 . DELTA
                                                                       LINOZIZO
     FYR(-1) OOLAGS
                                                                       LINOZ130
     P1+3+141402644
                                                                       LINOZIAN
     LAGTWO-LAGS+LAGS
                                                                       LINOZISO
                                                                       LINOZIGO
```

West Programme

```
ANGOP! /PLACS.
                                                                       LINGZITO
     DO 157 1=1 .LASTWO
                                                                       LINOZIBO
     F1=1-1
                                                                       LINOZIO
     GOFT PANG
                                                                       LINOZZOO
     CS(1)=COS(6)
                                                                       LINOZZIO
 157 SM(1)=51M(6)
                                                                       LINOSSEO
 500 NDATI-NDATA+
                                                                       DESSONLA
     TROM + TROM = STAGM
                                                                       L1N02240
     FDATA . N DATA
                                                                       LINOZZOO
     NU=NDATA-LAGS
                                                                       LINGZZGO
     SUMMATIONS FOR CROSS PRODUCTS
                                                                       LINOZZBO
C
                                                                       LINOZZOO
     SUMXeo
                                                                       00ES0N#J
     SUMY=04 --
                                                                       O1CSON1J
     DO 12 JONE NU
                                                                       LINOSIZO
     SUMX=SUMX+X(J)
                                                                       OCCSONAL
     SUMY=SUMY4Y(J)
12
                                                                       L1N02340
     SUMXL (NP)=0.
                                                                       LINOZZZO
     SIMXU(NP)=0.
                                                                       COCSONIA
     SUMYL (NP)=0.
                                                                       LINOZ370
     SUMYU(NP)=0.
                                                                       LINOZZBO
     DO 13 Je1.LAGS
                                                                      LINOZSOO
     SUMXL (NP) = SUMXL (NP) + X (J)
                                                                      PINOSADO
     SUMYL (NP) = SUMYL (NP) + Y(J)
                                                                       LINOZATO
     JJ - NDAT1 - J
                                                                      LINOZAZO
     SUMXU(NP) =SUMXU(NP)+X(JJ)
                                                                       OCPRONE'S
     SUMYU(NP)=SUMYU(NP)+Y(JJ)
13
                                                                      LINUZAGO
     SUMXL (NP) = SUMX+SUMXL (NP)
                                                                      LINOZASO
     SUMXU(NP)=SUMX + SUMXU(NP)
                                                                      LINOZAGO
     SUMYLINPIESUMY + SUMYLINPI
                                                                      L#N02470
     SUMYU(NP) #SUMY+SUMYU(NP)
                                                                      L1N02480
     00 14 Je1+LAGS
                                                                      FINUSAGO
     L-MA=CL
                                                                      LINUSSOO
     JJJm NOAT1 - JJ
                                                                      LINOSSIO
     SUMXL(JJ)=SUMXL(JJ+1)+X(JJJ)
                                                                      LINOSSEO
     SUMYL(JJ) = SUMYL(JJ+1)+Y(JJJ)
                                                                      LINOSSO
     SUMXU(JJ)=SUMXU(JJ+[)+X(JJ)
                                                                      LIN02540
     LINOSSSO
     DO 15 Jal .NP
                                                                      LINOZSGO
     PRODXX(J)=0.
                                                                      LINOZSTO
     P#00YY(J)=0.
                                                                      FINOSSBO
     PRODXY(J)=0.
                                                                      LINGZAGO
     PRODYX(J)=0.
                                                                      LIN02600
     MN = NDAT1 - J
                                                                      LIN02610
     LeML
                                                                      LINOSOSO
     00 15 1-14MN
                                                                      DEBSONTA
     PRODXX(J) #PRODXX(J)+X(() PX(JM)
                                                                      LIN02640
     PRODYY(J) =PRODYY(J)+Y(t)+Y(J#)
                                                                      L1N02650
     PRODXY(J)=PRODXY(J)+X([)#Y(JM)
                                                                      LINOZGGO
     PRODYX(J)=PRODYX(J)+Y([)4X(JM)
                                                                      LINOZ670
     1 +ML=ML
                                                                      LINGZOBO
                                                                     06920N1"
     THE CO-VARVARIANCE FUNCTIONS
                                                                      LINOZ700
```

```
C
                                                                          LIN02710
      DO 18 1-1-NP
                                                                          L1N02720
      DENOM . MOATI
                                                                          LINOZTO
      FDENel . /DENOM
                                                                          LIN02740
      TERMI(1) = PRODXY(1) - FDENASUMYU(1) + SUMXL(1)
                                                                          LIN02750
      TERM2(1) =PRODYX(1) =FDEN+SUMXU(1)+SUMYL(1)
                                                                          L1N02760
      QX(1)=FDEN#(PRODXX(1)=FDEN#SUMXU(1)#SUMXL(1))
                                                                          L1N02770
      QY(1)=FDEN+(PRODYY(1)-FDEN+SUMYU(1)+SUMYL(1))
 16
                                                                          L1N02780
      DO 17 1=1+NP
                                                                          LIN02790
      TOEN . NOATE - : - 1
                                                                          L#N02800
      FTOENS 1 . /TOEN
                                                                          L1N02810
      QC(1)=FTDEN=(TERM1(1)+TERM2(1))
                                                                          L1N02820
      00(1)=FTDEN#(TERM1(1)=TERM2(1))
17
                                                                          LIN02830
      IF! 1C .NE. 0 ) GO TO 200
                                                                          L1N02840
      WRITE (6435) NAME
                                                                          LINOZOSO
      IF! ITWO ) GO TO 201
                                                                          LINOZBOO
      WRITE (6+331) XN
                                                                          L1N02870
      WRITE (6:361) PW1
                                                                          LINOZBBO
      GO TO 202
                                                                          L1N02890
      WRITE (6:33) XN: YN
WRITE (6:36)- ( PWI: 1 = 1: 4 )
201
                                                                          LIN02900
                                                                          L1N02910
202
      DO 204 1 . 1. NP
                                                                          LINOSOSO
      MMMP = 1 - 1
                                                                          L1N02930
      IF! ITWO ) GO TO 203
                                                                          L1N02940
      WRITE (6+221) MMP+ 0X(1)
                                                                          L1N02950
      GO TO 204
                                                                          LIN02960
203
      WRITE (6:22)
                    MAP . OX(1) . OY(1) . OC(1) . OO(1)
                                                                          LINOZOTO
      CONTINUE
204
                                                                          LINOZOGO
M_1N02990
      THE RAW SPECTRA
                                                                          LINOJOOO
                                                                          L1N03010
      0X(MP)=0;540X(MP)
200
                                                                          LINOJOZO
      QY(NP)=0.5#QY(NP)
                                                                          LINOJOJO
      QC(NP)=0.54QC(NP)
                                                                          L1N03040
      0X1=0.5+0X(1)
                                                                          L1N03050
      QY1=0=5=0Y(1)
                                                                          LINOSOGO
      001=0.5=00(1)
                                                                          L$N03070
      00 65 101 MP
                                                                          LINGSOON
      UX(1)=0X1
                                                                          L1N03090
      UY(1)+0Y1
                                                                          L1N03100
   65 UC111=0C1.
                                                                          L1N03110
      00 70 1=2+MP
                                                                          L1N03120
      UX(1)=UX(1)+0X(1)
                                                                          L4N03130
      UY(1) = UY(1) +0Y(1)
                                                                          LIN03140
      UC(1)=UC(1)+0C(1)
                                                                          L1N03150
      UX(NP)=-UX(NP)+QX(1)
                                                                          L1N03160
      UY (MP) =-UY (MP)+QY(1)
                                                                          L1N03170
      UC (NP) #=UC (NP)+QC(1)
70
                                                                          L1N03180
CNOTE EX=(-1)##LAGS
                                                                          LIN03190
      UX(NP)= FX+UX(NP)
                                                                          LINOSZOO
      UYIND) - EXAUTIND)
                                                                          L1N03210
      UCINPI . EXAUCINP)
                                                                          LINOJEZO
      Un(1)=0.0
                                                                          LINOSSSO
      U0(NP)=0.0
                                                                          LIN03240
```

```
PINOSEEO
      00(NP)=,5+00(NP)
                                                                       LINOJZEO
      00 60 1-2.LAGS
                                                                       LIN03270
   80 U0(1)=0.0.
                                                                       LINOSEGO
      DO 90 102.LAGS
                                                                       L1N03290
      00 90 Jez.MP
                                                                       L1N03300
  158 JREM=(1-1)=(J-1)
                                                                       LINO3310
      JJ-MOD! JREM. LAGTWO 141
                                                                       L1N03320
      UX(1)=UX(1)+CS(JJ)+GX(J)
                                                                       L1N03330
      UY(1)=UY(1)+CS(JJ)#0Y(J)
      UC(1)=UC(1)+CS(JJ)#0C(J)
                                                                       L4N03340
                                                                       L1N03350
      (L)000(LL)ME+(1)0U=(1)0U
 90
                                                                       L1N03360
      00 95 101 MP
                                                                       L$N03370
      UX(1)=FLT=UX(1)
                                                                       L1M03380
     UY(1)=PLT=UY(1)
                                                                       L1N03390
      UC(1)=FLT=UC(1)
                                                                       L1N03400
      UQ(1)=FLT#UQ(1)
                                                                       L1903410
      IF! IR .NE. 0 ) GO TO 300
                                                                       L1N03420
      SMAN (46.8) STIRV
                                                                       L1N03430
      IF ( ITWO-) 60 TO 301
                                                                       L1N03440
      WRITE (6:331) XN
      WRITE (6:361) PW2
                                                                       L1903490
      GO TO 302
                                                                       L1N03460
      WRITE (6.33) XN: YN
                                                                       L1N03470
301
      WRITE-(6:36) - ( PV2: 1
                                                                       L4N03480
                                                                       L4N03440
302
      DO 304 1 - 1. NP
                                                                       L1N03500
      MMP = 1 - 1
                                                                       L1N03510
      1F( 1TWO ) 60 TO 303
      WRITE (6.221) MMP. UX(1)
                                                                       LINOSSO
      60 TO 304
                                                                       LINOSSSO
                                                                       LINOSSAG
      WRITE (4.22) MMP. UX(1). WY(1). UC(1). UG(1)
303
                                                                       L1N03950
304
      CONTINUE
C++++
     LIN03960
                                                                       L1N03570
      THE SMOOTHED AND CORRECTED SPECTRA
C
                                                                       L1803530
     WX(1)==5#(UX(1)+UX(2))
                             /ZA(1)
                                                                       L1N03990
300
                                                                      L1N03600
     WY(1)=+50(UY(1)+UY(2))
                             ZAIST
                                                                       L1903610
     WC(1)=.5+(UC(1)+UC(2))
                              /ZA(1)
                                                                       L1N03620
     WO(1)=.54UG(1) /ZA(1)
      WX(NP)=+S+(UX(LAGS)+UX(NP)) /ZA(NP)
                                                                      L1103630
      WY(NP)=,54(UY(LAGS)+UY(NP)) /ZA(NP)
                                                                       L1N03640
     WEINPIBESTICKILAGSIAUCIPPII /ZAINPI
                                                                       LIN03650
                                                                       L!N03660
     WO(NP)=#5#UQ(NP) /ZA(NP)
     00 98 1-2.LAGS
                                                                       L1N03670
                                                                       L1903680
     WX(1)=(.25+(UX(1-1)+UX(1+1))+.5+UX(1))/ZA(1)
     WY(1)=(,254(UY(1-1)+UY(1+1))+a54UY(1))/ZA(1)
                                                                       L1N03690
     VC(1)=(+25=(UC(1-1)+UC(1+1)1++5=UC(1)1/ZA(1)
                                                                       L1N03700
     WG(1)=(,25+(UG(1-1)+UG(1+1))++5+UG(1))/ZA(1)
                                                                       L1N03710
     IF( 15 .ME. 0 ) 60 TO 50
                                                                       L1N03720
     SMAN (SELE) STIRM
                                                                       L1N03730
     IF( ITWO ) GO TO 401
                                                                       L1N03740
     WRITE (6.331) XW
                                                                       L1N03750
                                                                       L1N03760
     WRITE (64361) PW3
                                                                       L1N03770
     WRITE (6+211)
     GO TO 402
                                                                       L1N03780
```

```
401
     WY INK (CCID) STINK
                                                                      L1N03790
     WRITE (6:36)
                   ( PW3. 1 = 1. 4 )
                                                                      L1N03800
     WRITE (6:21).
                                                                      L4N03810
                                                                      LINGSBEO
     00 404 1 = 2+ NP
402
      MMP . 1 - 1
                                                                      L4N03830
      1P1 1TWO-1 -0 TO 403
                                                                      L4N03840
      WRITE (6:221) MMP: WX(1)
                                                                      L1N03850
      60 TO 404
                                                                      L!N03860
      WRITE (6+22) MP WX(1)+ WY(1)+ WC(1)+ WG(1)
403
                                                                      L1N03870
     CONTINUE
                                                                      L1N03880
404
   SO RETURN
                                                                      L1N03890
PL 1N03960
C
      FORMAT STATEMENTS
                                                                      L1N03910
                                                                      L1N03920
C
     FORMAT (6X+1H0+5X+4(4H----+10X))
                                                                      L1N03930
21
     FORMAT(9X1H05X4H----)
                                                                     L1N03940
211
22
     FORMAT(X+16+1P4E14+3)
                                                                      L1N03950
221
      FORMAT(4X+16+1P4F14+3)
                                                                      L1N03960
                                                                      L1N03970
      PORMAT(11X5HITEM A1+11H WITH ITPM A1//)
33
      FORMAT(11X5H1TEM A1//)
331
                                                                      LIN03980
361
      FORMAT(GX1MP4XA1+4MX(P)/1X)
                                                                      LIN03000
      FORMAT(6X1HP4XA1+4HX(P)9XA1+4HY(P)9XA1+4HC(P)9XA1+4HQ(P)/1X)
                                                                     L1N04000
36
                    CO-VARIANCE FUNCTIONS FOR 546/1X)
35
      FORMAT( 32H1
                                                                     L1N04010
34
      FORMAT ( 32H1
                    THE RAW SPECTRUM FOR
                                              546/1X1
                                                                      L1N04020
      PORMAT(32H)
                    SPECTRAL ESTIMATES FOR
                                                                     L1N04030
32
                                              5A6/1X1
                                                                     L1N04040
      END
SOATA
```

APPENDIX C

Two Dimensional Power Spectral Density Program

1. Field Recording of Data

The field recording of survey data should follow a pattern that simplifies transfer of the data to IBM cards. The following pattern is recommended.

The survey books should have in addition to ruled horizontal lines, six vertical columns. The left column is for the x-coordinate numbers. The remaining columns are for elevation data in the order below.

H ₀₀	Hol	H ₀₂	H ₀₃	H ₀₄
H ₁₀	H ₁₁	H ₁₂	H ₁₃	H ₁₄
H ₂₀	H ₂₁	H ₂₂	H ₂₃	H ₂₄
	•	etc.		

On the next pages the first five lines of ground height should be completed. The x-axis heights then may be read in the left columns of the first several pages. The lines of y-coordinates 5 through 9 should be entered in the five columns of the next pages, etc.

Suppose the coordinate system on the ground were right hand one, i.e., standing at the (0,0) corner facing the y-axis side of the square, the x-axis side is to the right. The program prints out the raw data and the smoothed data in a right hand system also, but the y-axis heights are horizontally listed. The identification of the ground directions with the print-cut is easily made with this in mind. The directional aspects of both the lagged products and spectral estimates outputs follow this pattern. They are in the same sense as the ground, but the positive y-axis is to the right, the positive x-axis is down.

Computer and Operating System

The program uses the IBM 7090 or 7094 computer. The standard IBSYS/IBJOB (version 12) operating system will operate the source deck if the 'TIME' subroutine is modified or dummied (see flow chart). Since different systems use different logical tape numbers, the standard input tape, 5, and output tape, 6, may be inconsistent. (See flow chart for appropriate modifications.)

3. General Purpose

(A) Processing of a raw elevation matrix.

Given as input a raw elevation matrix (adjusted for instrument height) the program computes the following matrices:

- (a) Smoothed elevation matrix
- (b) Mean lagged products
- (c) Raw spectrum
- (d) Smoothed spectrum
- (e) Lagged products of smoothing coefficients
- (f) Fourier transforms of L.P.S.C.
- (g) Corrected spectrum

Any of these items may be written, optionally, on SYSOUL. In addition, items (a), (f), and (g) above are written on an alternate output tape.

(B) Processing a smoothed elevation matrix.

Using the alternate output tape produced by part (A), as input*, a subsequent run may be made which will produce items (b), (c), (d), and (g) for a selected submatrix of the smoothed matrix, with (g) for this submatrix saved on an alternate output tape.

^{*}It is recommended that this facet of the PSD program be used only in conjunction with input tapes produced as alternate output tapes in part (A).

4. Input Data Format

In explanation of card preparation for all runs, the following terminology will be used.

All data will be positioned on a card by specifying column limits. 'COLS N - M' means that the data item involved must be punched in columns N through M, N and M included.

Numerical data will be of the type floating point (denoted by [F]) or integer (denoted by [I]). Floating point numbers must have the decimal point punched and lying within the column limits. Integer numbers must be right adjusted in the allotted columns, i.e., the units digit punched in column M; the decimal point is not punched.

5. Input Specifications

Due to the potentially large amount of data involved, both in size of input matrices and number of input matrices, a flexible and, hopefully, simple set of input options has been provided.

A raw elevation matrix is punched in the following manner, five numbers per card in (F) format. The elements of the first row and the first five columns are punched in the first card--

COLS 1 - 10 element of row 1, col 1 11 - 20 element of row 1, col 2 21 - 30 element of row 1, col 3 31 - 40 element of row 1, col 4 41 - 50 element of row 1, col 5

In the same manner, the elements of the first five columns and the second row are punched in the second card. This process is continued until the elements of the first five columns and the last row are punched. The second five columns are punched in exactly the same manner. Suppose the number of columns is not a multiple of five. In this case, the last few columns are punched in exactly the same manner as above; e.g. if the number of columns is 23, the last 3 columns are punched using only columns

1 - 10, 11 - 20, and 21 - 30.

Each input matrix has associated with it a matrix title card which contains a matrix number and identification information. The format for this card is:

> COLS 1 - 72 73 - 80 any alphabetic text matrix number (I)

The alphabetic text in columns 1 - 72 will be printed at the top of each output page.

Each elevation matrix must be followed by a matrix termination card. The format for this card is

> COLS 1 - 71 not read

> > termination character

72 - 72 73 - 80 not read

Each matrix which is to be processed requires a matrix control card which controls tape assignments, output options, etc. The format for this card is

> COLS 1 - 6 \$GRIDP

7 - 8 =blank or 0, all input is on the system input tape.

> =n, matrix title card, elevation matrix and matrix termination card are on logical tape n, in that order.

9 - 10=m, logical tape m is alternate output tape.

11 - 12 =0 or blank, this is a raw elevation matrix.

=1, this is a smoothed elevation matrix.

13 - 14=0 or blank, continuous processing of all input.

=1, after each matrix is processed the program pauses after printing on-line instructions to the operator to allow continuing or terminating the run.

15 - 16 =0 or blank, for all matrices in all runs, with the following exception: Suppose 3 matrices have been processed and their output written on an alternate output tape, The current run is to process several more matrices and it is desirable to write the alternate output from this run on the same tape reel, after the output from the first 3. In this situation, this field on the \$GRIDP card for the first matrix only is punched 01.

17 - 18 ≠0 or blank, the elapsed time is printed after each of the items (a) through (g) is computed. =0 or blank, no timing is done.

The following fields control the suppression of output on SYSOUl of the indicated items. 0 or blank suppresses output of that particular. item while Ol causes the item to be written.

COLS 19 - 20 elevation matrix as read.

> 21 - 22smoothed elevation matrix.

23 - 24mean lagged products.

25 - 26raw spectrum.

27 - 28smoothed spectrum.

29 - 30lagged products of smoothing coefficients.

Fourier transforms of L.P.S.C.

31 - 32 33 - 34 corrected spectrum.

35 - 72not read

73 - 80matrix number (I). The program will search the tape which is specified as being the matrix tape (if cols 7-8 are 0 or blank, SYSINI, if cols 7-8=n, logical tape n) for a matrix title card with this number in cols 73-80.

TO CONTRACT Y

```
Data Interval Card
```

COLS 1 - 10 column interval (F) 11 - 20 row interval (F)

Matrix Size Card .

COLS 1 - 10 number of columns in the elevation matrix. (I)

11 - 20 number of rows in the elevation
matrix. (I)

21 - 30 value of ρ. i.e. (the number of columns in the smoothing coefficient matrix - 1)/2. (I)

31 - 40 value of σ . i.e. (the number of rows in the smoothing coefficient matrix - 1)/2. (I)

41 - 50 value of MX. (I) 51 - 60 value of MY. (I)

The corrected spectrum will be (2 * MX + 1) by (2 * MY + 1)

The G- matrix or spectral smoothing matrix (3 by 3) is presented on punched cards in the following format:

COLS 1 - 10 element in row 1, column 1 (F) 11 - 20 element in row 1, column 2

61 - 70 element in row 3, column 1

second card

COLS 1 - 10 element in row 3, column 2 11 - 20 element in row 3, column 3

The B-matrix or matrix of smoothing coefficients has $2\rho + 1$ columns and $2\sigma + 1$ rows. As it is symmetrical about the origin, only the upper half of the plane ≥ 0 is specified in $(2\sigma + 1) * (\rho + 1)$ numbers. That is, columns ρ , $\rho + 1$, . . . $2\rho + 1$.

Punching by columns, 7, 10 column (F) fields per card, column ρ is punched, then column $\rho + 1$, etc.

Finish Card

The format for this card is:

COLS 1 - 6 \$FINIS

6. Deck Set-up - Single Elevation Matrix

With the above mentioned cards, a complete deck, set up to process one raw elevation matrix consists of the following cards in the indicated order. This illustrates deck set-up if no alternate input tape is specified.

\$JOB

Installation identification card.

\$EXECUTE

IBJOB

\$IBJOB

BINARY OR SOURCE DECK FOR PSGRID PROGRAM

\$DATA

\$GRIDP

Matrix title card
Data interval card
Matrix size card
G-matrix
B-matrix
Elevation matrix
Matrix termination card

\$FINIS

If an alternate input tape is specified, the "'ed items do not appear on the system input tape but are placed on the alternate unit in the following order.

Matrix title card Elevation matrix Matrix termination card

7. Deck Set-up - More Than One Elevation Matrix

To process more than one elevation matrix per run, the termination characters on the matrix termination cards control the input for the next matrix to be processed.

- * in column 72 This matrix is the last matrix to be processed in this run. Execution will be terminated after this matrix is processed.
- / in column 72 In processing the next matrix, #'ed items are to be read in again.
- \$ in column 72 In processing the next matrix, #'ed items will be the same as for this matrix, therefore these items are not included after the \$GRIDP card for the following matrix.

The last card of every data deck must be a \$FINIS card. There should be only one \$FINIS card for each run.

8. Output Specifications - Alternate Output Tape

The information written on the alternate output tape during t' processing of a raw elevation matrix is organized in the following manner:

Matrix Title Card Data Interval Card Matrix Size Card (as read)
(as read)
(as read)

except

COLS 1 - 10 number of columns in smoothed matrix

11 - 20 number of rows in smoothed matrix

tain 99999999

G-matrix
Smoothed Matrix*
Fourier Transforms of L.P.S.C.**
Matrix Termination Card - Termination Character/
Matrix Title Card

COLS 1 - 72 (as read) 73 - 80 (as read) +5

Corrected Spectrum Dimensions

COLS 1 - 10 number of columns in corrected spectrum

11 - 20 number of rows in corrected spectrum

Corrected Spectrum**

Matrix Termination Card - Termination Character \$ except for last matrix in run, in which case termination character is * and COLS 73-80 con-

Due to the problems created by the necessity of finite representation of numbers, the three "'ed items are written on the alternate output tape in a manner which will preserve the entire machine representation of their values. The format for all of these numbers if + 0.zxxxxxxxE+yy. This notation represents the number

+ 0.sxxxxxx X 10 + yy

Numbers written in this notation always require 15 columns and z is always non-zero, unless the number itself is zero.

- The smoothed matrix is written in a manner analogous to that of the raw matrix, i.e., 4 columns at a time, the values occupying COLS 1 15, 16 30, 31 45 and 46 60.
- The Fourier transforms of L.P.S.C. and the corrected spectrum are written in a slightly different manner, i.e., placing 4 numbers per card image the entire first row is written. Starting with the next field, the second row is written. This process continues until all rows have been written.

9. Deck Set-up - Processing a Submatrix of a Smoothed Matrix

Using the alternate output tape, described in 8., as the alternate input tape, any submatrix of a smoothed matrix may be processed as indicated in 3.(B). Deck set-up is as indicated in 6. and 7. with the following exceptions:

The matrix control card (\$GRIDP card) must have '01' punched in columns 11 - 12.

All #'ed and "'ed items in 6. are removed and replaced by the following submatrix card.

COLS 1 - 10 lower column limit*
11 - 20 upper column limit

21 - 30 lower row limit

31 - 40 upper row limit

^{*}Both rows and columns are numbered starting at 1, even though the print-out in the raw matrix run begins numbering at 0.

SUPPLEMENT A

to

Two-Dimensional Power Spectral Density Program Notes

The PSD program is organized as a main program and four subroutines. Labeled common is used where appropriate and identical variable names are used when items are transmitted via labeled common. See Supplement B for a list of the important variable names and their usage.

The following is a brief description of each of the decks which comprise the PSD program. Flow charts are attached for the main program, deck name IN, and the major computational subroutine, deck name FSGRID. It is assumed that the source listings of the remaining decks are self-explanatory.

'CLOCK' A machine language program which places the integer number representing the remaining execution time (in .6 seconds) in the AC each time it is called.

'TIME' A FORTRAN subroutine which prints the total elapsed time (time since last call with zero argument) and the time elapsed since the last call, in minutes and seconds.

NOTE: Both of these decks may be removed and a dummy 'TIME' deck substituted if the user so desires.

'WRITER' A FORTRAN subroutine which writes the argument matrix on the output tape, 6, 5 columns at a time, indexing the rows and columns as specified by argument values.

'PSGRID' A FORTRAN subroutine which computes and calls 'WRITER' to write items (b) through (g), given the smooth matrix.

'IN' The FORTRAN main program which does all input for both raw and smoothed matrix runs, computes the smoothed matrix if necessary and calls 'PSGRID' for the remaining computations.

Included with the source deck of the PSD program are two file specification decks. These assume that FORTRAN logical tape 7 will be designated as the alternate input tape and FORTRAN logical tape 8 will be the alternate output tape. Both tapes are made up of 80 character logical and physical records, i.e. card images. This structure must be used to be consistent with READ and WRITE statements throughout the PSD program.

SUPPLEMENT B

to

Two-Dimensional Power Spectral Density Program Notes

Symbol Table

•			
Equation Symbol	Name	Program Symbol	Max. Size
g _{ij}	The Spectral Smoothing Matrix	G	3×3
B _{rs}	The Smoothing Coefficients	B	25x25
H ₁ j	The Raw Elevation Matrix	Н	105x101
h _{ij}	The Smoothed Matrix	SH	105x101
Yab	The Mean Lagged Products	GA	50x25
fab	The Raw Spectrum	F	50×50
Tuv	The Smoothed Spectrum	FB	50x50
Wuv	The Lagged Products of the Smoothing Coefficients	W	50x25
∳ ∳Y	The Fourier Transforms of Wuv	PHI	50x50
fas .	The Corrected Spectrum	FS	50x50

Single Location Variables

 $NX = N_x + 1$, the width of the H matrix.

NY = N_v +1, the height of the H mutrix.

NRHO = ρ , the horizontal limits of the B matrix

NSIG = σ , the vertical limits of the B matrix.

NBR = $2\rho + 1$, the width of the B matrix.

NBS = $2\sigma + 1$, the height of the B matrix.

NHR = ρ + 1

NHS = $\sigma + 1$

NSHX = N_{ν} + 1 - 2 ρ = n_{ν} + 1, the width of the h matrix.

NSHY = $N_v + 1 - 2\sigma = n_v + 1$, the height of the h matrix.

 $MX = m_{\chi}$, the horizontal limits of the σ and f matrices.

MY = m_v , the vertical limits of the σ and f matrices.

 $NGX = 2m_x + 1$, the width of the matrix.

NFX = NGX

FX = NGX

NFY = $2m_y + 1$, the height of the f matrix.

FY = NFY

 $NGHX = m_{_Y} + 1$

 $NGHY = m_{y} + 1$

NFBX = 2m_x

 $NFBY = 2m_{\dot{v}}$

N2R = 2

NWX = 4 + 1, the width of the W matrix.

DX = x, the horizontal data interval.

DY = y, the vertical data interval.

INTAPE = the alternate input tape number.

OUTAPE = the alternate output tape number.

FLAG = 0 for raw run, \neq 0 for smoothed run.

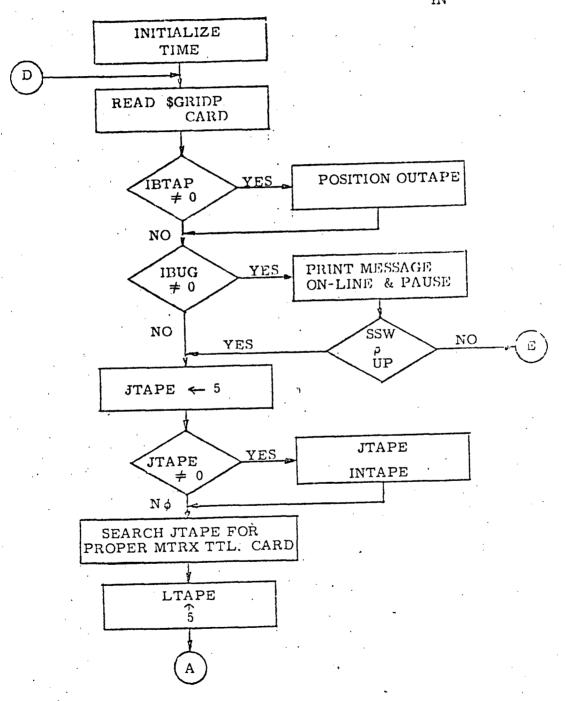
IBUG = switch for on-line messages.

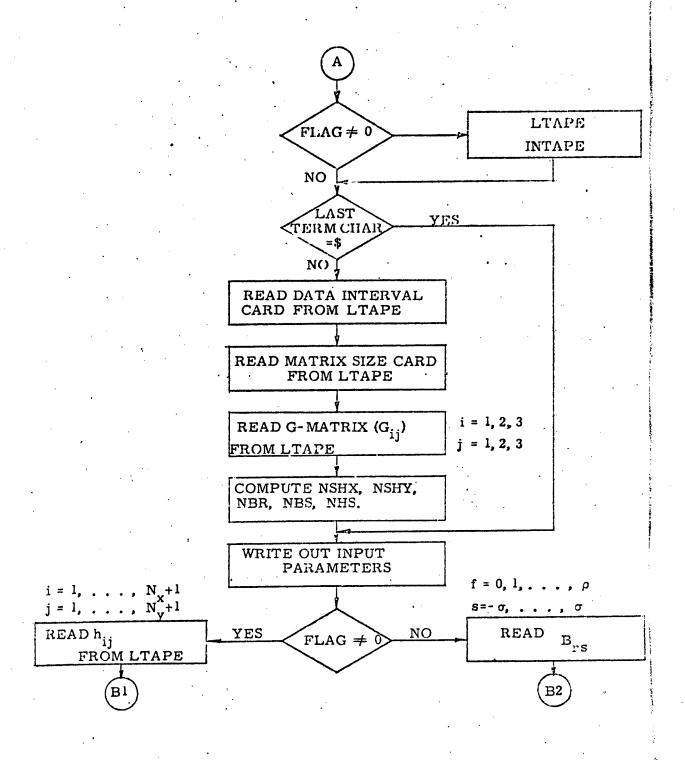
TBTAP = switch for previously-processed alternate output tape.

ITIME = switch for timing print-outs.

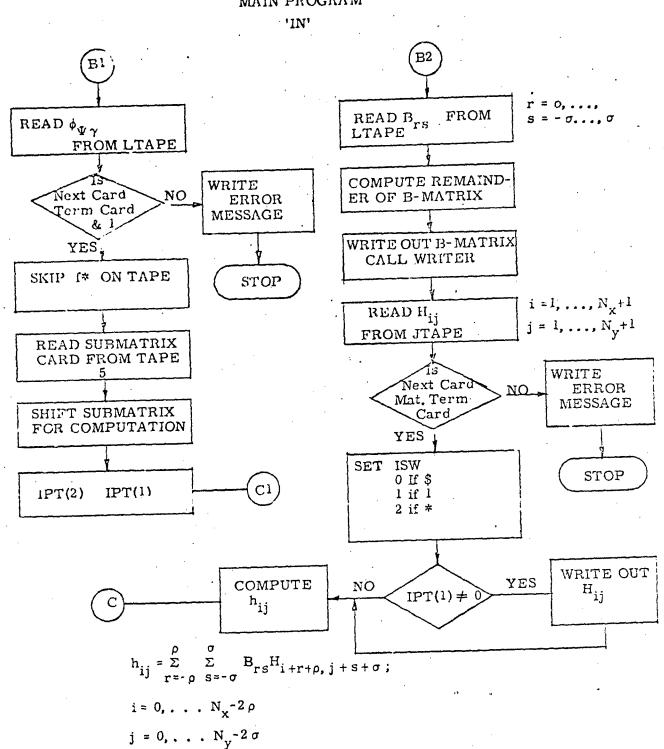
IPT(1) through IPT(8) = printing switches for raw elevation matrix and items (a)
through (g) [listed under 3.(A)
respectively.

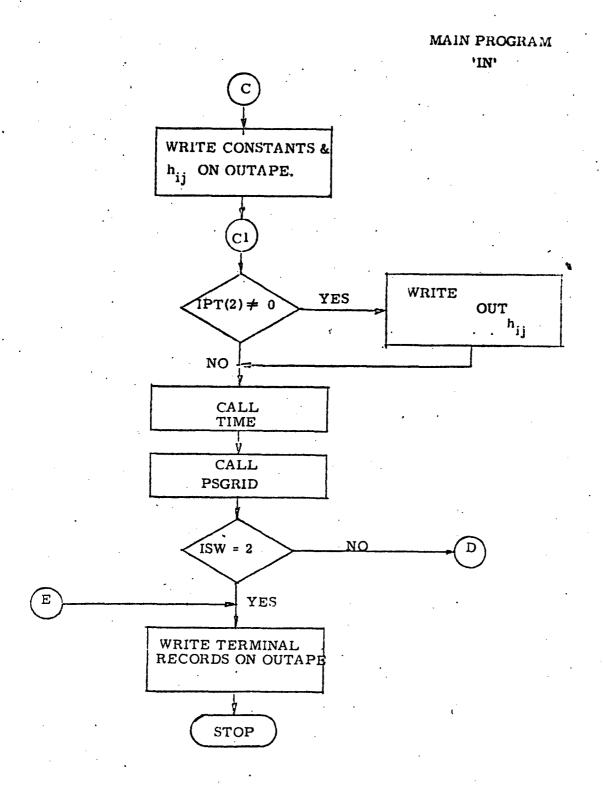
APPENDIX C - FLOY CHART MAIN PROGRAM 'IN'

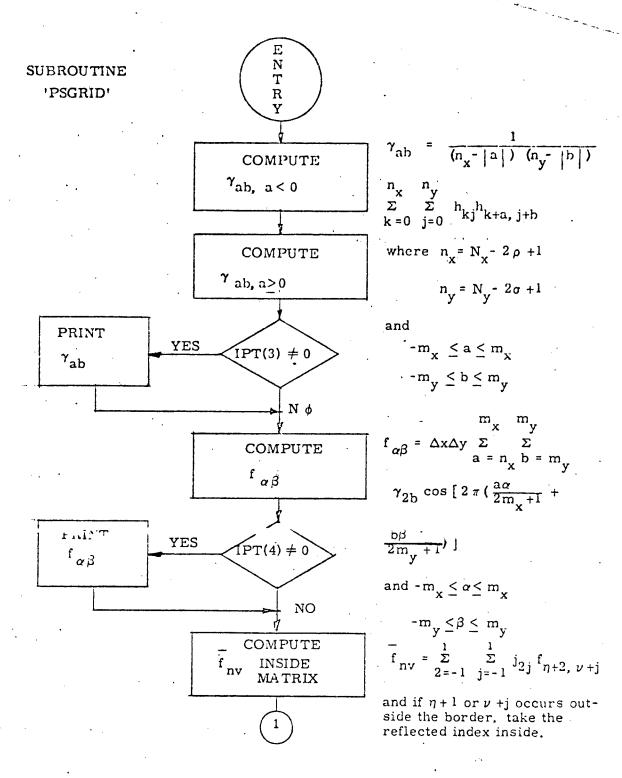


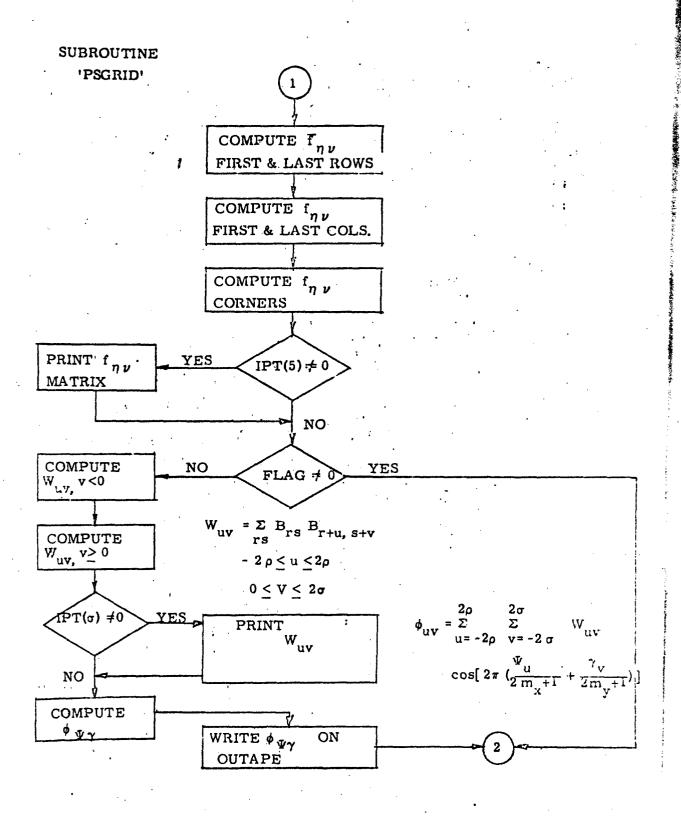


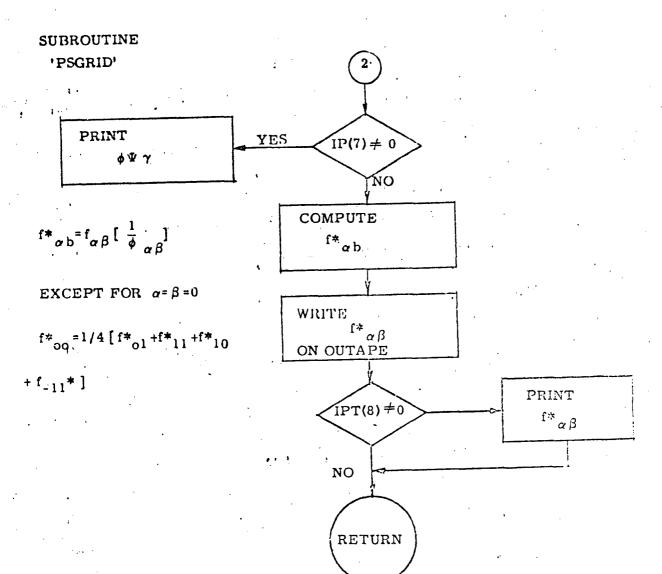
MAIN PROGRAM











```
AREA SPECTRAL DENSITY PROGRAM
               TRUOR
SEXECUTE
               MAD
STRUCK
                                                                             GROOGOOO
               DECK . DO . FUL IST . REF
SIBFTC PSGRID
                                                                             cepaca1a
      SUBPOUTINE PSGPID
      MODIFIED SPECTRAL DENSITY PROG STARTED 10 SEPT 1964
                                                                             GBD00050
                                                                             GPD00030
                                                                             GR000040
      INTEGER OUTAPE. FLAG
                                                                             65003030
      COMMON: /ARRAYS/ SH(105+100)+ PH1(50+25)+ R(25+25)+ G(3+3)
                                                                             GR000060
              /SIZES/ MX+ MY+ NBR+ NBS+ NSHX+ NSHY+ NFX+ DX+ DY+ NRHO
/CONTRL/ [PT(8]+ FLAG+ 17]MF+ OUTAPF
                                                                             GRD00070
     1
                                                                             GROOOSO
                                                                             GRD00090
              /LAB/ LABEL(12)+ NID
                                                                             CD00100
      DIMENSION GA(50.25). F(50.50). F8(50.50). W(50.25). FS(50.50).
                                                                             GR000110
                                                                             GRD00120
     1 HEAD(6+6)
                                                                             GRD00130
                                                                             GRD00140
            HEAD(1:1) / 34HMEAN LAGGED PRODUCTS: (COVAR)
                                                                    1
      DATA
                                                                             GRD00150
                                                                    1.
             HEAD(1+2) / 34HRAW SPECTRUM+ (F)
     1
                                                                             GRD00160
                                                                    /•
            HEAD(1+3) / 34HSMOOTHED SPECTRUM: (F-RAR)
            HEAD(1+4) / 34HLAGGED PRODUCTS OF SMOOTHING COEF.
                                                                             GRD00170
     3
                                                                             GRD00180
            HEAD(1.5) / 34HFOURTER TRANSFORMS OF L.P.S.C.
                                                                             GR000190
             HEAD(1+6) / 34HCORRECTED SPECTRUM+ (F=STAR)
                                                                             GRD00200
                                                                             GR000210
      EQUIVALENCE (FS.FB). (GA.W)
                                                                             GBD00550
CI
                                                                             GR000230
      READ IN INPUT DATA
                                                                             GPD00240
            # 240#3414159
       P12
                                                                             GRD00250
      COMPUTE THE MEAN LAGGED PRODUCTS (COVARIENCES)
C
                                                                             GRD00260
       A LESS THAN ZERO
                                                                             GRD00270
  212 NGHX=MX+1
                                                                             GRD00280
       NGHY=MY+1
                                                                             GBD0054U
       NGX=NGHX+MX
                                                                             GRD00300
       D012718=1 .MX
                                                                              GRD00310
       KKO=MX+1-18
                                                                             GBD00350
       K67=NSHX=K69
                                                                              GRD00330
       00127J8=1 .NGHY
                                                                              GPD00340
       K70=J8-1
                                                                              GR000350
       KABENSHY-K70
                                                                              GRD00360
 CIBA
                                                                              GR000370
       SUM#0+0
                                                                              CREDOGRAD
       D012816=1 (K67
                                                                              CEDUCAD
       17=K69+16.
                                                                              GRD00400
       D0128J7=1+K6A
                                                                              GPD00410
       JA#K70+J7 -
                                                                              GROOGED
       TEMP#SH(17+J7)#5H(16+J6)
                                                                              GRD00430
   128 SUM=SUM+TFMP
                                                                              CRDOC440
       D=K67#K68
                                                                              GR000450
   127 GA(18+JB)=SUM/D
                                                                             . GRD00460
 C14
                                                                              GRANCATA
       A FOUAL TO AND GREATER THAN ZERO
                                                                              GPD00480
   213 D017718=NGHX+NGX
                                                                              GRD00490
       K60=18-MX-1
                                                                              ふりつつきつう
       K71=NSHY-K69
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GRD00510
      D0177J8#1 #NGHY
                                                                            GRD00520
      K70=J8-1
                                                                            GRD00530
      K72=NSHY-K70
                                                                            GRD00540
C14A
                                                                            GRD00550
      SUM#0.0
                                                                            GRD00560
      DC17817#1 #K71
                                                                            GROCOSTO
      16=174869.
                                                                            GRD00580
      D0178J7=1+K72
                                                                            GRD00590
       J6#J?+K70 -
                                                                            GRD00600
      TEMP=SH(17.J7)=SH(16.J6)
                                                                            GRD00610
  178 SUM#SUMATEMP
                                                                            GR000620
      DeK71#K72
                                                                            GR000630
  177 GA(18.J8)=SUM/D
                                                                            GRD00640
C15
      IF( IPT(3) .NE. 0 )
                                                                            GRD00650
                                                                            GR000660
         CALL WRITER! GA. 50. 0. MY. -MX.
      IF( ITIME .NE. 0 ) CALL TIME(1)
                                                                            GRD00670
                                                                            GRANDOSSO.
C16
                                                                            GRD00690
      RAW SPECTRAL CALCULATIONS.
                                                                            GRD00700
  215 NFY=2#MY+1
                                                                            GRD00710
      NFX=2#MX+1
                                                                            GP000720
      FYENFY
                                                                            GRD00730
      FXENFX
                                                                            GRD00740
      LPMX = MX + 1
                                                                            GRD00750
      LPMY = MY + 1
                                                                            GRD00760
      D0131110=1+NFX
                                                                            GRD00770
      ALPHA = 110 - LPMX
                                                                            GRD00780
      ALPHA = ALPHA / FX
                                                                            GRD00790
      D0131J10=1+NFY
                                                                            GROOGOO
      BETA = J10 - LPMY
      BETA # BETA / FY
                                                                            GRD00810
                                                                            GRD00820
      SUM=0.0
                                                                            GRD00830
C17
                                                                            GRDn084n
      D013619#1 .NGX
                                                                            GR00850
       A = 19 - LPMX
       A - A + ALPHA
                                                                            GRD00860
                                                                            GRD00870
      D0132J9=2.NGHY
                                                                            GR000880
      RE= J9-1
                                                                            GRD00890
       ANG1 = P12 + ( A + 8E + BETA )
                                                                            GRD00900
C17A
       TEMP= GA(19+J9)#COS(ANG1)
                                                                            GRD00910
  132 SUM#SUM+TEMP#2.0
                                                                            GBD00920
                                                                            GR000930
       ANG2 = P12 # A
  136 SUM = SUM + GA (19+1) + COS (ANG2)
                                                                            GRD00940
  131 F(110+J10)=DX#DY#SUM
                                                                            GRD00950
                                                                            GR000960
C18
       IF( IPT(4) .NE. 0.)
                                                                            GRD00970
         CALL WRITER( F. 50. -MY. MY. -MX. MX. HEAD(1.2)
                                                                            GRD00980
       IF( ITIME .NE. 0 ) CALL TIME(1)
                                                                            GRD00990
C19
                                                                            GRED 1 000
                                                                            GPD01010
       SMOOTHED SPECTRUM
С
       INSIDE MATRIX
                                                                            GRD01020
C
  217 NEBX#NEX=1
                                                                            GRD01030
                                                                            GRD01040
      NFRYENFY-1
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	D0140113#2*NFBX	GRD01050
	D0140J13=2+NFBY	GPD01060
	SUM=0.0	GR001070
	D0141111=1+3	GR001080
	112=113+111=2	GRD01090
	D0141J11=1+3	GRD01100
	J12=J13+J11=2	GROOTIO
C20		GP001120
	TEMP=G(111+J11)#F(112+J12)	GRD01130
141	SUM=SUM+TEMP	GRD01140
140	FB(113+J13)=SUM	GRD01150
C21	•	GRO01160
218	D0142+13=2+NFBX	GR001170
	StM=0+0	GRD01180
	SUMA#0+0	GRD01190
	D0143114=1+3	GRD01200
	115=113+114-2	GRD01210
	TEMP=G(114+1)*F(115+2)*G(114+2)*F(115+1)*G(114+3)*F(115+2)	GRD01220
	TEMPA=G(114+1)=F(115+NPBY)+G(114+2)=F(115+NFY)+G(114+3)	GRD01230
,	K#F([15.NFBY]	GRD01240
	SUM=SUM+TPMP	GR001250
143	SUMA O SUMA O TEMPA	GR001260
4.40	FB([13+1)=SUM	GRD01270
	FB(113+NFY)=SUMA	GROGIZEO
CSS	DOLLA IL DUG ANTON	GRD01290
219	D0144J13=24NFBY	GRD01300
	SUMm0+6	GRD01310 GRD01320
	SUMA=0+0 D0145J14=1+3	GR001330
	J15=J144J13=2	GRD01330
	TEMP=G(1,J14) =F(2,J15)+G(2,J14) =F(1,J15)+G(3,J14) =F(2,J15)	GRD01350
	TEMPA=G(1+J14)*F(NF8x+J15)+G(2+J14)*F(NFX+J15)+G(3+J14)	GRD01360
,	(#F(NFBX.J15)	GRD01370
•	SUM#SUM4TEMP	GRD01380
145	SUMA#SUMA+TEMPA	GRD01390
,,	FB(1+J13)=SUM	GRD01400
144	FB(NFX+J13)=SUMA	GP001410
C23		GRD01420
	K27=2	GRD01430
	K28=1	GRD01440
	K29=2	GRD01450
	K30=1 · · ·	GRD01460
	D0146L19=1+4	GPD01470
	SUM#0+0	GR001480
	K26=K29: -	GRD01490
	00147L20=1+3	GRD01500
	TEMP=G(L20+1)#F(K26+K27)+G(L20+2)#F(K26+K2R)+G(L20+3)#F(K26+K27)	GRD01510
C24	1	GRD01520
	1F(L20-2)148+149+147	GRD01530
148	K26=K30 G0T0147	GRD01540 GRD01550
440	K26=K29.	GRD01560
149	60T0147	GRD01570
	SUM#SUMATEMP	6R001580
147	SOME SAME TO THE	いっけいいこうしい

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GRD01590
                                                                            GR001600
C25
      GOTO(150+151+152+154)+L19
                                                                            GR001610
  150 FB(1+1)=SUM
                                                                            GRD01620
      KZ9#NF8X
                                                                            GRD01630
      K30=NFX
                                                                            GRD01640
      GCT0146
                                                                            GRD01650
  151 FB!NFX+11=SUM
                                                                            GRD01660
      K29=2
                                                                            GRD01670
                                                                            GR001680
      K30=1
      KZ7=NFBY
                                                                            GRD01690
      K28=NFY
                                                                            GRD01700
      6010146
                                                                             GRD01710
CZS
                                                                             GRD01720
  152 PR(1.NFY)=SUM
                                                                             6PD01730
       KPOHNFBX
                                                                             GRD01740
       K30=NFX
                                                                             GRD01750
       G0T0146
                                                                             GRD01760
   154 FB (NFX+NFY)=SUM
                                                                             GRD01770
   146 CONTINUE
                                                                             GRD01780
                                                                             GR001790
C27
       1F( 1PT(5) .NE. 0 )
                                                                             GR001800
         CALL WRITER( FB. 50. -MY. MY.
                                                                             GRD01810
       IFE ITIME .NE. 0 ) - CALL TIME(1)
                                                                             GR001820
       IF (FLA6) 222. 222. 226
                                                                             GRD01830
C28
                                                                             GRD01840
       COMPUTE CORRECTION COEFFICIENTS
                                                                             GRD01850
 C
       U LESS THAN ZERO
 C
                                                                             GROO1860
   222 N2R=NRHO+NRHO
                                                                             GRD01870
       D0157118=1 +N2R
                                                                             GRD01880
       K38=N2R+1-118
                                                                             GR001890
       K40=NBR-K38
                                                                             GRD01900
       D0157J18=1+NRS
                                                                             GRD01910
       K39=J18-1
                                                                             GRD01920
       K41=NBS-K39
                                                                             GRD01930
                                                                             GRD01940
 C29
        SUM=0.0
                                                                             GRD01950
        00158117=14K40
                                                                              GRD01960
        119=1174K3A
                                                                              GRD01970
        D0158J19=1+K41
                                                                              GRD01980
        J17=J194K39
                                                                              GRD01990
        TEMP=8(1174J17)#8(1194J19)
                                                                              GRD02000
    158 SUM SUMATEMP
                                                                              GRD02010
    157 W(118.J18) = SUM
                                                                              GR002020
                                                                              GR002030
 C30
        U EQUAL TO OR GREATER THAN ZERO
                                                                              G9002040
        NWX . NER+NER .
                                                                              GRD02050
    223 D0159118=NBR+NWX
                                                                              69010000
        K42=118-NBR
                                                                              GRD02070
        KAD=NRR-KAZ
                                                                              GRD02080
        00159J18=1 .NRS
                                                                              GRU02090
        K390J18-1
                                                                              GRD02100
        K41=NBS-K39
                                                                              GRD02110
  COOA
                                                                              05150095
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5UM#0.0

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GRD02130
      D0160117=14K40
                                                                           GRD02140
      110=1174K42
                                                                           GROOZISO
      D0160J17=14K41
                                                                           GR002160
      J190J174K39
                                                                           GRD02170
      TEMP=861170J17)#8(1190J19)
                                                                           GRD02180
  160 SUM=SUM+TEMP
                                                                           GR002190
  159 W(118.J18)=SUM
                                                                           GR002200
C31
                                                                           GR002210
      THE IPTERS ONE OF
                                                                           GRD02220
       CALL WRITER( W. 50. 0. MRS-1.
                                                                           GRD02230
      IF( ITIME .NE. 0 ) CALL TIME(1)
                                                                           GRD02240
C32
                                                                           GRD02250
      LPMX = MX + 1
                                                                           GRD02260
  225 D0165120=1+NFX
                                                                           GRD02270
      5 . 120 - LPMX
                                                                           GRD02280
      5 . 5 / FX-
                                                                           GRD02290
      D0165J20=1 .NGHY
                                                                           GRD02300
      T=J20-1
                                                                           GRDOZ310
      TaTノギ
                                                                           GRD02320
      SUM=0.0
                                                                           6RD02330
      D0167 121=1+NWX
                                                                           GRD02340
      Ue121-NBR
                                                                           GRO02350
      U . U . S
                                                                           GRD02360
      D0166-J21=2+NBS
                                                                           GROOZ370
      V=J21-1
                                                                           GR002380
C33
      ANG1 = P12-# ( U - V # T )
                                                                           GRO02390
      TEMP=W(121+J21)+COS (ANG1)
                                                                           GROOZ400
                                                                           GRD02410
  166 SUM=SUM+TEMP#2+0
                                                                           GR002420
      ANG2 - P12 + U
                                                                           GRD02430
  167 SUM=SUM+W(121+1)#COS (AM62)
      1F(ABS(SUM).LT. 0.00001) SUM=S1GN(0.000001.SUM)
                                                                           GR002440
  165 PH1(120.J20)=SUM
                                                                           GR002450
                                                                           GROOZ460
C34
      WRITE(OUTAPE:110)
                         ( PHOTOLOGY ) = 1 OFF ) J = 1 OFF )
                                                                           GR002470
                                                                           GRD02480
      WRITE (OUTAPE+103)
                                                                           GR002490
226
      TPI IPTITA NEL O ).
                                                                           GR002500
         CALL WRITER( PHI: 50: 0: NGHY-1: -MX: MX: MEMO(1:5) )
                                                                           GRD02510
      IF! ITIME .. NE. 0 ) CALL TIME(1)
                                                                           GRD02520
C34A
                                                                           GRD02530
C35
                                                                          68002540
  227 00169122=1+NFX
                                                                          GRD02550
      D0169J22=1+NFY
                                                                           GR002560
      123-122
                                                                          GR002570
      J23=NGHY+1-J22
                                                                           GR002580
      1F(J22.GT.MY) J23=J22-MY
  169 FS(122+J22)+FB(122+J22)/PH1(123+J23)
                                                                          GRD02590
                                                                          GRD02600
      KSO=NGHX+1
                                                                          GRD02610
      KS1=NGHY+1
      FS(NGHX)NGHY)=(FS(MX)KS1)+FS(NGHX)KS1)+FS(KS0)KS1)+FS(KS0)NGHY))/ GRD02620
                                                                          GRD02630
     X440
                                                                          GRD02640
C36
                                                                          GR002650
                          LABEL. NID. MX. MY
      WRITE (OUTAPE . 101)
                                                                          GR002660
      WRITE (OUTAPE+110)
                           ( ( FS((+J)+ ) = 1+ NFX )+ J =
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200

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IF( IPT(8) ANEA 0 )
                                                                          GRD02670
         CALL WRITER( FS+ 50+ -MY+ MY+ -MX+ MX+ MEAD(1+6) 1
                                                                          GR002680
      IP! ITIME .NE. 0 ) CALL TIME(1)
                                                                          68002690
      RETURN
                                                                          GR002700
                                                                          GRD02710
      FORMAT(1246+18/2110+60XA1)
101
                                                                          GRD02720
      FORMAT(7F10.3.10X)
102
                                                                          GRD02730
103
      FORMAT(71X1H/8XA1)
                                                                          GRD02740
      FORMAT(4E15.8.20X)
110
                                                                          GRD02750
      END
                                                                          GR002760
SIBPTC IN
               DECK+DO+FULIST+REF
                                                                          GRD02776
      INTEGER OUTAPE+ FLAG
                                                                          GRD02790
                                                                          GRD02800
      COMMON /ARRAYS/ SH(105+100)+ PH1(50+25)+ 8(25+25)+ 6(3+3)-
                                                                          GRD02810
             /SIZES/ MX+ MY+ NBR+-NBS+ NSHX+ NSHY+ NFX+ DX+ DY+ NRHO
     t
                                                                          GRD02820
     2
             /CONTRL/ 1PT(8) + FLAG+ 1TTME+ OUTAPP
                                                                          GRD02830
             /LAS/ LABEL(12). NID
                                                                          GRD02840
                                                                          GRD02850
      DIMENSION H(105+100)+ HEAD(6+3)+ ELABEL(12)
                                                                          GRD02860
                                                                          GRD02870 .
      EQUIVALENCE (HISH) + (10 IN10)
                                                                          GR002880
                                                                          -GP002890
            ICTL. AST. SLASH. DOL. ISWI. JEC. IFIN / SHEGRIDP. 1HF. 1H/.GRD02900
            184 14 14 6HSFINIS /+
                                                                          GRD02910
            MEAD(1.1) / 32HTHE SMOOTHING COEFFICIENTS
                                                               1.
                                                                          GRD02920
     3
            HEAD(1:2) / JEHTHE ELEVATION MATRIX
                                                               1.
                                                                          GRD02930
            HEAD(1+3) / 32HTHE SMOOTHED MATRIX
                                                                          GR002940
                                                                          GP002950
                                                                          GRD02960
      CALL TIME (0)
                                                                          GR002970
                                                                          GRD02980
     READ (5-100) 1. INTAPE. OUTAPE. PLAG. 1806. 18TAP.
1000
                                                            ITIME . IPT . IDGRD02990
      IF( 1 .EQ. IFIN ) GO TO 500
                                                                          GRD03000
      IF( I .NE. ICTL )
                        GO TO 200
                                                                          GRD03010
                                                                          GR003020
      IF! ISTAP .EQ. 0 .OR. OUTAPE .EQ. 6 ) GO TO 1002
                                                                          GRO03030
1001
         READ (OUTAPE . 106) ELAPEL . CODE
                                                                          GRD03040
         IFI CODE .NE. AST ) GO TO 1001
                                                                          GR003050
         BACKSPACE OUTAPE
                                                                          6RD03060
         WRITE (OUTAPE 306)
                                                                          GRD03070
                                                                          GRD03080
                                                                          6RD03090
1002 JEC = 1
                                                                          GRD03100
                                                                          GR003110
      IF ( IBUG +EQ. 0 ) GO TO 1
                                                                          GR003120
         PRINT 108
                                                                          GPD03130
         PAUSE
                                                                          GRD03140
         CALL SSWTCH( 641)
                                                                          GRD03150
         IF( 1 .EQ. 1 ) GO TO 501
                                                                          GR003160
                                                                          GRD03170
      JTAPE - 5
                                                                          GRD03180
      IF! INTAPE .GT. 0 )
                                                                          GRD03190
                                                                          GRD03200
      READ (JTAPE+101) LABEL+ 10T
                                                                          GR003210
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1F1 10T .NE. 10 ) GO TO 2
                                                                         GRD03220
                                                                         GR003230
                                                                         GR003240
      LTAPE . 5
                                                                         GRD03250
      IF! FLAG .NE. 0 ) LTAPE = INTAPE
                                                                         GRD03260
      IF( |SW1 .EQ. 0 ) GO TO 21
                                                                         GRD03270
      READ (LTAPE-102)
                        DX. DY
                                                                         GRD03280
      READ (LTAPE+103)
                        NX. NY.-NRHO. MSTS. NX. NY
                                                                         GRD03290
                                                                         6RD03300
      READ (LTAPE . 102)
                       ( ( 6(14J)4 1 a 14 3 74 J a 14 3
                                                                         GR003310
     NSHX . NX - 2 + NRHO
                                                                         GR003320
     NSHY - NY - 2 + NSTG
                                                                         GRD03330
                                                                         GRD03340
     NBR = NRHO # 2 4 1
     NBS - NSIG + 2 + 1
                                                                         GR003350
     NHS - MSIG + 1
                                                                         68003360
                                                                         GR003370
21
     WRITE (6:104) LABEL: NX: NY: NBM: WES: MX: MY: DX: DY: ( 1: 1 = 1GRD03380
                     . 3 ), ( J. ( 6(1,J), 1 = 1, 3 ), J = 1, 3 )
                                                                         GRD03390
                                                                         GRD03400
                                                                         GRD03410
      IF! FLAG .NE. 0 )
                        GO TO 8
                                                                         GR003420
                                                                         GRD03430
     WRITE (6.109) OUTAPE. NID
                                                                         GRD03440
     IF( 15W1 .EQ. 0 ) 60 TO 31
                                                                         GR003450
                                                                         GP003460
     READ (LTAPE.102)
                                                                         GRD03470
                                                                         68003460
                                                                         GRD03490
     00 3 i . 1. MRR
                                                                         GRD03500
        11 = NBR +-1 - 1
        DO 3 J' . 1. NS1G-
                                                                         GRD03510
           J1 = N85 + 1 - J
                                                                         GRD03520
           8(1.J) - 8(11.J1)
                                                                         68003530
                                                                         GRD03540
     CALL WRITER! B. 25. -MSIG. MSIG. -MRHO. MEMO(1:1) )
                                                                         GRD03550
                                                                         GR003560
     DO 4 1 . 14 NX+ 5
                                                                         GRD03570
                                                                         GRD03580
        11 . 1 + 4
        READ (JTAPE-105)
                                                                         GRD03590
                                                                         6RD03600
     READ (JTAPE+106) ELABEL+ CODE+ 1ERM
                                                                         GPD03610
                                                                         029E0GR9
     15W1 - 3
      IFE CODE .EQ. AST )
                          19W1 - 2
                                                                         GRD03630
     IF! CCDE .EQ. SLASH ) ISWI .
                                                                         GRD03640
                                                                         GRD03650
     IF ( CODE .EQ. DOL )
                          15W1 . 0
                                                                         GPD03660
     IF( ISW1 .EQ. 3.) GO TO 201
                                                                         GR003670
                                                                         GR003680
      191 197(1) .NE. 0 ) .
                                                                         GR003690
           CALL WRITER! No 1054 O. NY -
                                                                         GRD03700
                                                                         CECOGRA
     DO 6 1 = 1+ NSHX
                                                                         68003720
        DO 6 J = 1. NSHY
                                                                         62003730
           SUM . 0.0
                                                                         GRD03740
           00 5 11 = 14 NBR
```

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- 3:3C

GRD03750

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GRD03760
                12 - 1 + 11 - 1
               00 5 J1 = 1. NBS
                                                                           GR003770
                   J2 = J + J1 = 1 -
                                                                           GR003780
                   SUM - SUM + 8(11'-J1) + M(12+J2)
                                                                          GRD03790
         SH(1.J) . SUM
                                                                           GR003800
                                                                          GR003810
      11 . NSHX 4-1
                                                                           GR003820
      DO 7 1 = 11. MX
                                                                           GRD03830
         00 7 J . 1. NSMY
                                                                           6900384A
             SM(1.J) = 0.0
                                                                           GRD03850
                                                                           GRD03860
      WRITE (OUTAPE-101) LABEL NIO
                                                                          GRD03970
      WRITE (OUTAPE-112) DX+ DY
                                                                           GR003860
      WRITE (OUTAPEALLS) NSHX+ NSHY+ NRHO+-NSIG+ MX+ MY .
                                                                           GR003890
      WRITE (OUTAPE, 111) ( ( G(1, J), 1 = 1, 3 ), J = 1, 9 )
                                                                           GRD03900
      00 71 1 e 1+ NSHX+ 4
                                                                           GRD03410
         11 - 1 + 3
                                                                           GRD03920
71
         WRITE (OUTAPE-110) ( C SHIJE-I). St + 11 14 J + 14 NSHY )
                                                                          GRD03930
                                                                           GRD03940
      GO TO 11
                                                                           GRD03950
                                                                          GP003940
                                                                           GRD03970
      DO 9 1 . 1. NX. 4
                                                                          GRD03980
         11 . 1 + 3 .
                                                                          GR003990
         READ (LTAPE.110)
                            1 1 SM(12.J). 12 - 1.
                                                                           GRD04000
                                                                          GR004010
      NFX # 2 # MX 4 1
                                                                           GR004020
      MGHY . MY + 1
                                                                          GRD04030
      READ (LTAPE: 110)
                        1 + PMI(1+J) + 1 = 1 + NPX + J = 1 + NGHY + 1
                                                                          GR004040
                                                                          GRD04050
      READ (LTAPE+106) ELABEL CODE
                                                                          GRD04060
      IF! CODE . NE. SLASH ) GO TO 202
                                                                          GRD04070
      15W1 - 1
                                                                          GRD04080
                                                                          68004090
      READ (LTAPE+106) ELABEL+ CODE
91
                                                                          GRD04100
         IFI CODE .NE. DOL .AND. CODE .NE. AST )
                                                                          GR004110
      IF! CODE .EQ. AST ) ISW1 . 2
                                                                          GRD04120
                                                                          GPD04130
      READ (5:103) -MFX: MLX: MFY: MLY
                                                                          GR004140
      DO 10 1 - MPX. MLX
                                                                          GRD04150
         11 - 1 + 1 - MFX
                                                                          GPD04180
         00 10 J . MFY4 - MLY
                                                                          GR004170
            J1 . J + 1 - MPY.
                                                                          GR004180
            SH(11+J1) - SH(1+J)
10
                                                                          GRD04190
                                                                          GR004200
      NSHX . MLX - MFX 4 1
                                                                          GRD04210
      NSMY . MLY - MFY .4 1
                                                                          GRD04220
      1PT(2) - 1PT(1)
                                                                          GR004230
                                                                          GRD04240
      WRITE (6:107) MFX: MLX: MFY: MLY
                                                                          GR004250
                                                                          GRD04260
                                                                          GRD04270
      IF! IPT(2) AMEA 0 )
11
                                                                          69004280
           CALL WRITER! SHE 1050 OF MSHY - 10 OF MSHX - 10 MEAD(103) )
                                                                          GR004290
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	494 49449 AM A A AAA MAMBAAA	GRD04300
	IF(ITIME OMEO O) CALL TIME(1)	6RD04310
		GRD04320
	CALL PSGRID	GRD04330
		GRD04340
	1F(15W1 .EQ. 2) 60 TO 500	GRD04350
	WRITE (OUTAPE+306)	GRD04360
	60 TO 1000	GR004370
		GRD04380
		GRD04390
501	Jec • 4 -	GRO04400
500	WRITE (6.303)	68004410
	00 502 1 = 1 · 100	GRD04420
502	WRITE (OUTAPE: 305)	GRD04430
	IF(JEC .EQ. 4) WRITE (6.304)	GRD04440
	STOP	GRD04450
		GR004460
200	WRITE (6:300) JEC: 1	GR004470
	GO TO 1000	GR004480
		GR004490
201	WRITE (6:301) ELAGEL: CODE: TERR	GRD04500
	STOP	GR004510
	· · · · · · · · · · · · · · · · · · ·	GRD04520
202	WRITE (6:302) ELAGEL: CGDE: 1ERR	GR004530
	STOP	GRD04540
		GRD04550
		GR004560
100	FORMAT(A6:1412:38X:18)	GRD04570
101	FORMAT(1246+18)	GRD04580
102	FORMAT(7F10a3)	68004590
103	FORMAT(7110)	GRD04600
104	FORMATIZINI INPUT PARAMETERS 1846//6X12H1NPUT MATRIXAX1443H	
	#4//6X16HSMOOTHING MATRIX14+3H X 14//6X14HRUMBER OF LAGSEX14+3H	
	#4//6X13MOMTA INTERVAL3XF4.1.3H X F4.1///6X33MSPECTRAL SMOOTHIN	
	#ATRIX+ 6(1+J)//7X3110//(6X13+3F10+3))	GRD04640
105	FORMAT(SF10+3)	GRD04650
106	FORMAT(11A6.A3.A1.(18)	GRD04660
107	FORMATI/INOSXSINTHIS IS A COMPUTATION INVOLVING/6X7HCOLUMNS144SI	
• • •	1014-10H AND ROWS 14-3H TO14/6XESHOF & PRE-SHOOTHED MATRIXAL	GRD04680
106	FORMAT(46HOSENSE SWITCH & UP AND PRESS START TO CONTINUE/50H SET	
	1 SWITCH 6 DOWN AND PRESS START TO TERMINATE.)	- GRD04760
109	FORMATI//6X49HTHE 10. NUMBER FOR THE ALTERNATE OUTPUT TAPE 12:41	
•••	11518+14+)	GRD04720
110	FORMAT(4E1548420X)	GRD04730
111	FORMAT(7F10+3+10x/2F10+3+60XA1+	GRD04740
112	FORMAT(2F10+3+60XA1)	GRO04750
113	FORMAT(6)10+20XA))	GRD04760
113	VALUE VALUE VALUE	GRD04770
300	FORMATITION SERVICE CARD NOT ENCOUNTERED WHEN EXPECTED SEARCH	
500	IONTINUES/31H FIRST SIX CHARS. ON CARD READ A6.41) .	GRD04790
301	FORMAT(106H148++ +/+ OR +++ EXPECTED AT END OF ELEVATION MATRIX.	
301	1 COLUMN 721 NOT FOUND. CARD AS READ APPEARS BELOW. /IHO11A6.A5	
	2.18/72X1H4//69X7HCOL. 72//21H EXECUTION ABANDONED.1	GRD04820
302	FORMAT(104H1 // OR IN EXPECTED AT END OF FOURIER TRANFORMS IN	
- V Fe	and the contraction of the contr	

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1UMN 72. NOT FOUND. CARD AS READ APPEARS BELOW. /1M011A6.A5.A1.18/GRD04840
     272X1HP//69X7HCOL. 72//21H EXECUTION ABANDONED.)
                                                                         -GRO04850
      FORMAT(1H1/1H3//55X+10HTHESE THEN//58X+3HARE//53X+14HTHE ANSWERS++GR004860
     1.//30X+20MOW ALL THAT REMAINS//55X+10HTO SE DOME//39X+2H15//55X+ GRD04870
     29HTO RECALL //53X+14HTHE QUESTIONS+//65X+6HRVR+++
                                                                          GR004880
304
      FORMAT(34H1EXECUTION TERMINATED BY OPPRATOR.)
                                                                          GR004890
105
      FORMAT(71X1H#8H0000000)
                                                                          GRD04900
306
      FORMAT(71X1HS8XA1)
                                                                          GRD04910
      END
                                                                          GR004920
SISPIC WRITE
              DECK DO FUL 15T
                                                                          GRD04930
      SUBROUTINE WRITER! OUT, NOIM, IRP. IRT. ICF. ICT. HEAD )
                                                                          GRD04940
                                                                          GR004950
      COMMON /LAS/ LASEL(12)
                                                                          GRD04960
                                                                          GRD04970
      DIMENSION OUT(NOTMALLA HEAD(6)
                                                                          GR004980
      DIMENSION
                NUMR(101) & NUMC(5) & PMT1(6) & FMT2(4) & FMCON(5)
                                                                          GRD04990
                                                                          GRD05000
      DATA FMCON / 6H
                           1 . SH
                                      2. 6H
                                                3. 6H
                                                          4+ 6M
                                                                     5 / GR005010
            FMT1(1) /35H(1H112A6//6X6A6//2X
                                                                          69005020
                                                       110/1 /4
            FMT2(1) / 19H(/(14.
                                      F10.311 /
                                                                          GRD05030
                                                                          GRD05040
      NATC = ICT - ICF + 1
                                                                          GRD05050
      NATE = IPT - IPF + 1
                                                                          GRD05060
                                                                          6RD05070
      1CF1 = 1CF - 1
                                                                          GRD05080
                                                                          GRD05090
      18F1 . 18F -- 1
                                                                          GR005100
      DO 1 1 . 1. NATR
                                                                          GR005110
         NUMB(1) = 10F1 + 1
                                                                          GRD05120
         1F( NUMP(1) .EQ. 0 )
                               NUMP(1) = 0
                                                                          GRD05130
                                                                          GRD05140
      FMT1(5) - FMCON(5)
                                                                          GR005150
      FMT2(2) = FMCON(5)
                                                                          GR005160
                                                                          GR005170
      DO 4 1 . 1+ NATC+ 5
                                                                          GRD05180
         11 = 1 + 4
                                                                          GR005190
         IF! II .LE. NATO ) GO TO 2
                                                                          GRD05200
            11 = NATC
                                                                          GRD05210
            J = NATC - 1 + 1
                                                                          GR005220
            FMT1(5) = FMCON(J)
                                                                          GR005230
            FMT2(2) = FMCON(J)
                                                                          GR005240
         00 3 J = 1+ 11
                                                                          05250GRD
            J1 = J - 1 + 1
                                                                          0850099
            NUMC(J1) = IC#1 + J
                                                                          GRD05270
         THE NUMCEULLY SHOW O ) NUMCEULLY = 0
                                                                          6RD05280
         \times 1 = 11 - 1 + 1
                                                                          GR005290
         DO 4 J = 14 NATP. 50
                                                                          GRD05300
            WRITE (6.FMT1) LABEL: HEAD: ( MUMC(J1): J1 = 1: K1 )
                                                                          GR005310
            J1 - J + 49
                                                                          GRD05320
            IF! JI .GT. NATR )
                                JI . NATR
                                                                          GR005330
            DO 4 L . J. J1. 10
                                                                          GRD05340
               L2 . L + 9.
                                                                          GRD05350
               IF( L2 .GT. J1 ) L2 = J1.
                                                                          GRD05360
                              ( NUMP(L1)+ ( OUT(13+L1)+ 13 - 1+ 11 )+ L1GRD05370
               WRITE(6.FMT2)
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GRD05380.
                                                                              GRD05390
       RETURN
                                                                              GRD05400
       END
                                                                              GR005410
 SIBPTC TIME
                DECK . DO . REF . FUL 1ST
                                                                              GR005430
       SUBROUTINE TIME(IND).
                                                                              GRD05430
                                                                              GRD05440
       INTEGER CLOCK. SEC. CURR. START
                                                                              GRD05450
                                                                              GR005460
       DATA KOUNT / 0 /
                                                                              GRD05470
                                                                              GRD05480
       IF! IND .NE. 0 ) GO TO 2
                                                                              GR005490
       START - CLOCK(DUM)
                                                                              GR205500
       RETURN
                                                                             GRD05510
                                                                             GR005520
      CURR . CLOCK ( DUM )
                                                                             GR005530
      KOUNT . KOUNT + 1
                                                                             GRD05540
                                                                             GR009990
       IT . FLOAT! START - CURR ) . .6
                                                                             GRD05560
      MIN = IT / 60-
                                                                             GR005570
       SEC - MOD! 1T. 60 )
                                                                             GR009580
      WRITE (6+10) KOUNT+ MIN+ SEC
                                                                             GR005590
                                                                             GRD05600
       IF! KOUNT .EQ. 1 ) GO TO 3
                                                                             GR005610
          IT = FLOAT! LCURR - CURR ; .
                                                                             GRD05620
          MIN = 17 / 60
                                                                             GRD05630
          SEC - MOD! !T. 60-)
                                                                             GRD05840
          WRITE- (6+11) MIN. SEC
                                                                             GR005650
      WRITE (6:12)
                                                                             GRD05660
      LCURR . CURR
                                                                             GR005670
      RETURN
                                                                             GR005660
                                                                             GRD05690
      FORMAT(1H15X48(1HP)/6X1HP46X1HP/6X1HP5X13+25HTH CALL TO TIMER ROUTGROOSTOO
10
     TINE. 15X1H4/6X1H446X1H4/6X1H43X21HTOTAL TIME ELAPSED -- 14.6H MIN. . 1GRD05710
     2(13+5H SEC. 4X1HP) )
                                                                             GRD05720
      FORMATIONINPAGNINA/ONINFONESHTIMP SINCE LAST CALL -- 14.6H MIN. . 1 GROOSTOO
11
     113+5H SEC.2X1H+))
                                                                             GR005740
12
      FORMAT(6X1H#46X1H#/6X48(1H#)/1XA1)
                                                                             GRD05750
      END
                                                                             GR005760
SIBMAP CLOCK
                DECK
                                                                             69005770
CELL
       HOOL
                77735
CLOCK
       SAVE
                                                                             GR005790
                CELL
       CAL
                                                                             GRD05800
                M2135
       ANA
                                                                             GR005810
       RETURN
                CLOCK
                                                                             GRD07820
       OCT
M2135
                                                                             GRD05830
       END
                                                                             GRD05840
                OUT 20 INDUTORLE 40 RCD ON TONO PROUNT ON OLD OR ALTEREEL
UN07
       FILE
                OUT : MOUNT : INPUT : BLK = 14 . BCD : MY GH : HOLD
UNITOS FILE
                                                                            GRD05880
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